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WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

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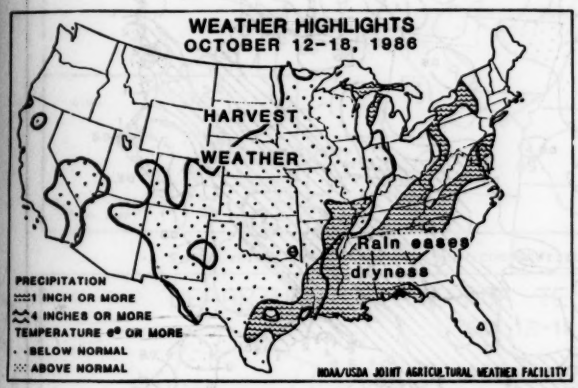
National Weather Summary

October 12 to 18, 1986



HIGHLIGHTS: Cool harvest weather prevailed over the Great Plains and Corn Belt. An extensive frontal system soaked the eastern half of the Nation early in the week that eased the drought in the Southeast and mid-Atlantic States. A storm system brought rain to the northern and central Pacific coast at the end of the week.

SUNDAY...A strong frontal system moved across the central United States causing widespread precipitation with large amounts in the lower Mississippi Valley. Unseasonable cold air covered the Great Plains, and snow fell over the southern Rockies. Skies were clear over the western third of the Nation.

MONDAY...The frontal system continued its eastward movement as showers and thunderstorms fell throughout the eastern United States. Cold air settled behind the system into the Mississippi Valley and Great Plains. Almost the entire western half of the country had clear skies.

TUESDAY...The frontal system moved slowly across the East Coast States resulting in showers and thunderstorms along the Atlantic seaboard. Rainshowers were scattered from the Great Lakes to New England. Skies were clear elsewhere with cold air remaining in the central portions of the country.

WEDNESDAY...High pressure dominated the Nation resulting in clear skies and fair weather. Scattered showers and thunderstorms were limited to Florida, and rain and snowshowers to the Great Lakes and northern Appalachians.

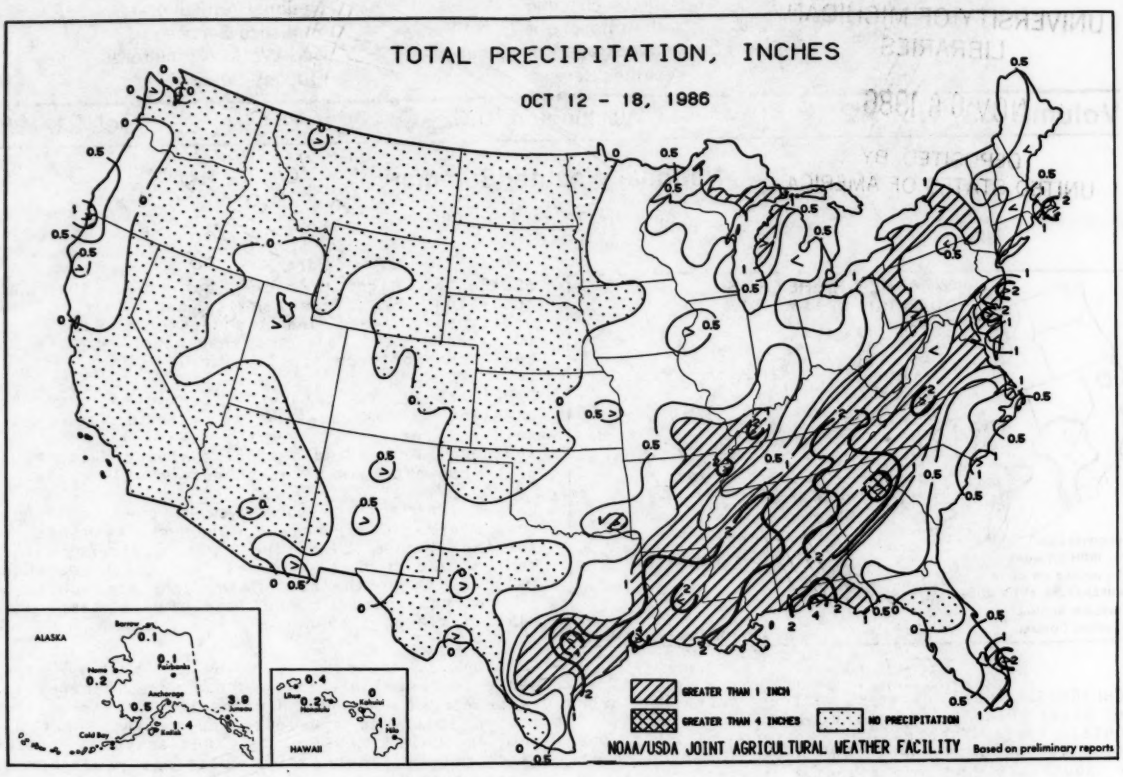
THURSDAY...High pressure continued to bring pleasant autumn weather to much of the Nation. Rain fell over parts of the lower Great Lakes and southern Florida and a storm system off the Pacific coast brought rain to northwestern California.

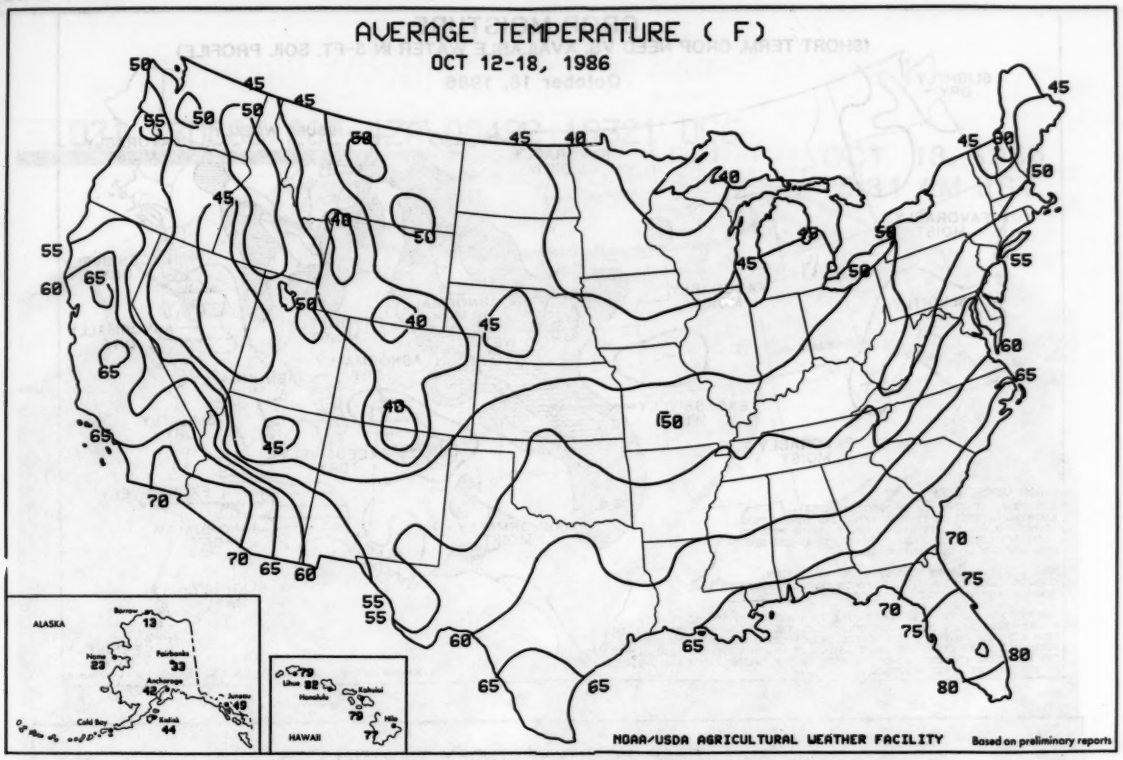
FRIDAY...A Pacific storm system spread rainshowers from central California to Oregon. Rain with snow in the higher elevations was scattered in the central and southern Rockies, and scattered showers fell in the Northeast. Skies were sunny over much of the remainder of the Nation with temperatures slightly lower-than-normal.

SATURDAY...A large cold high pressure system centered over the eastern Great Lakes brought lower temperatures to the Northeast. A storm system caused scattered precipitation in the Great Basin and central Rockies, and thunderstorms occurred along the eastern Florida coast. Dry weather prevailed over the rest of the country.

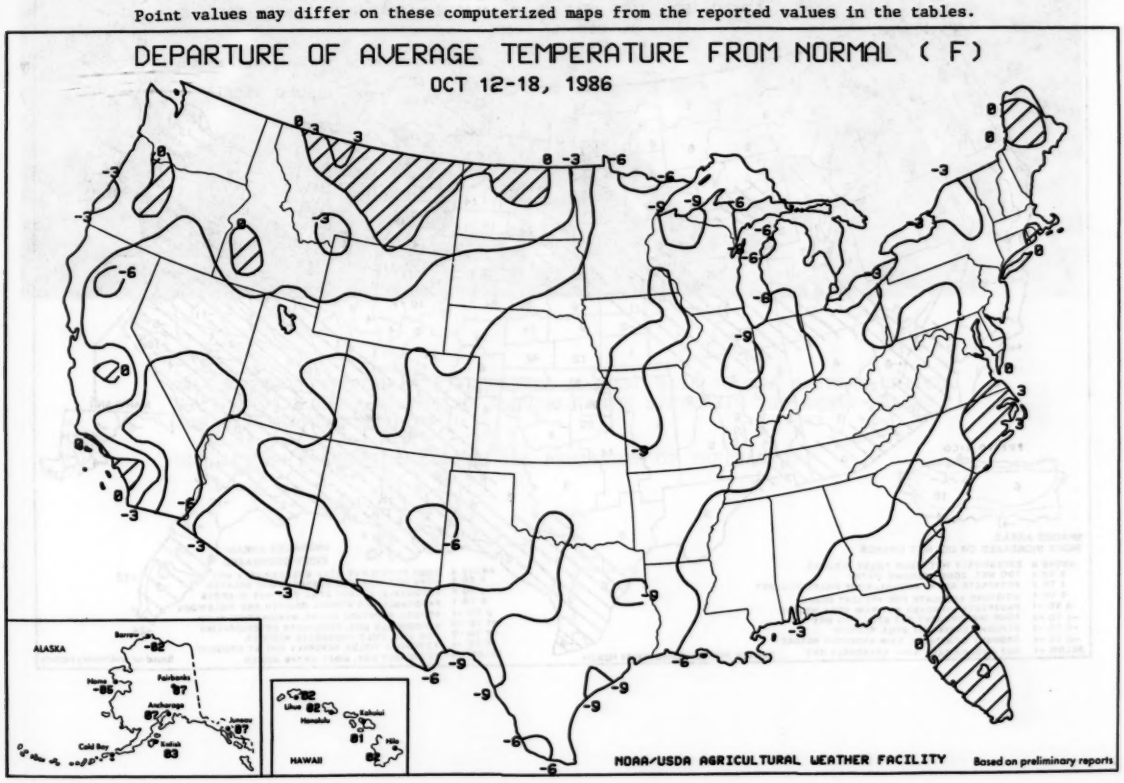
Contents

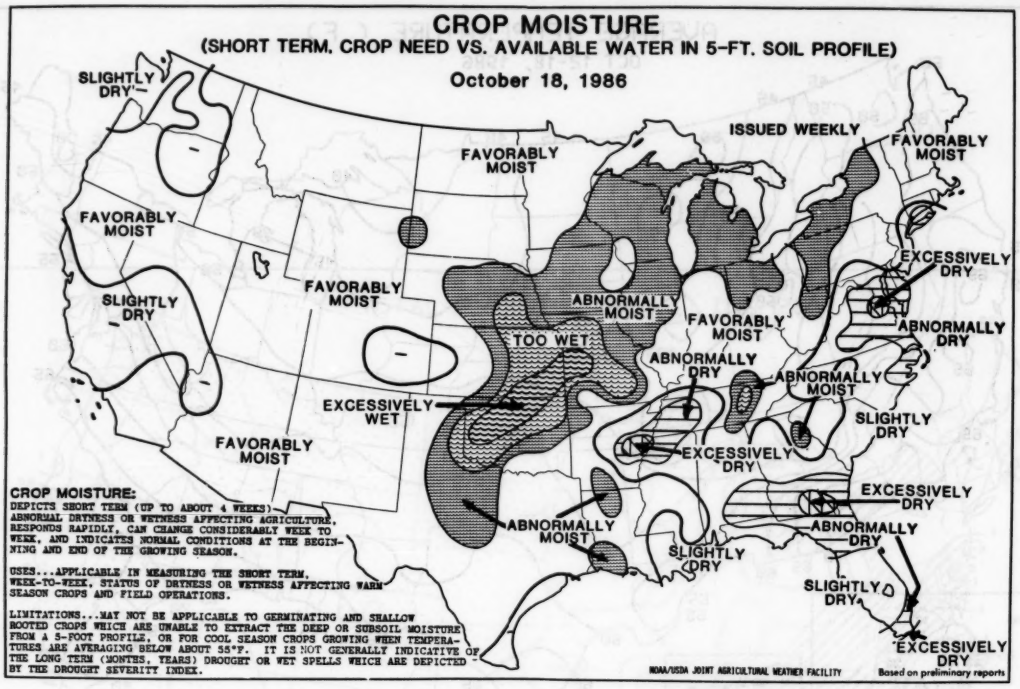
	Page
National Weather Summary	1
Total Precipitation	2
Average Temperature & Departure	3
Crop Moisture & Crop Moisture Index	4
North American Satellite Photo	5
Heating Degree Days Table	6
National Weather Data for Selected Cities	7
Extreme Minimum Temperature	10
National Agricultural Summary	11
Crop Progress and Condition Tables	12
State Summaries of Weather and Agriculture	13
Global Weather Satellite Image	19
International Weather and Crop Summary	20
African Agricultural Weather Summary	23
Subcription & Mailing Permit Information	24

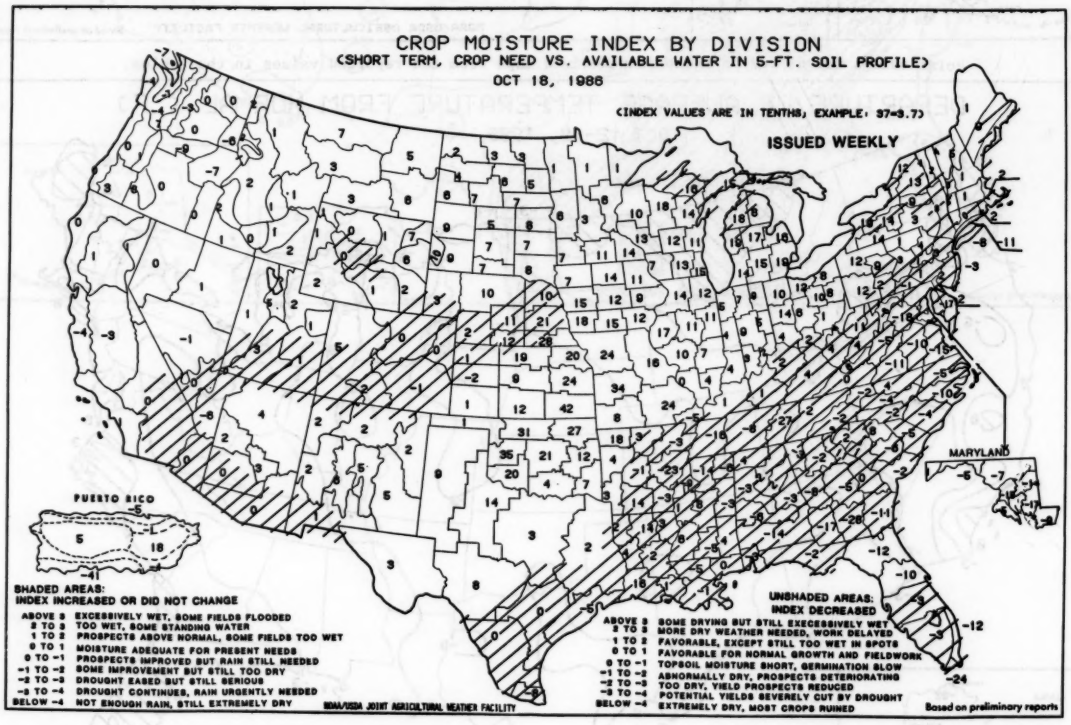

TOTAL PRECIPITATION, INCHES
OCT 12 - 18, 1986
ALASKA
HAWAII
GREATER THAN 1 INCH
GREATER THAN 4 INCHES
NO PRECIPITATION
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

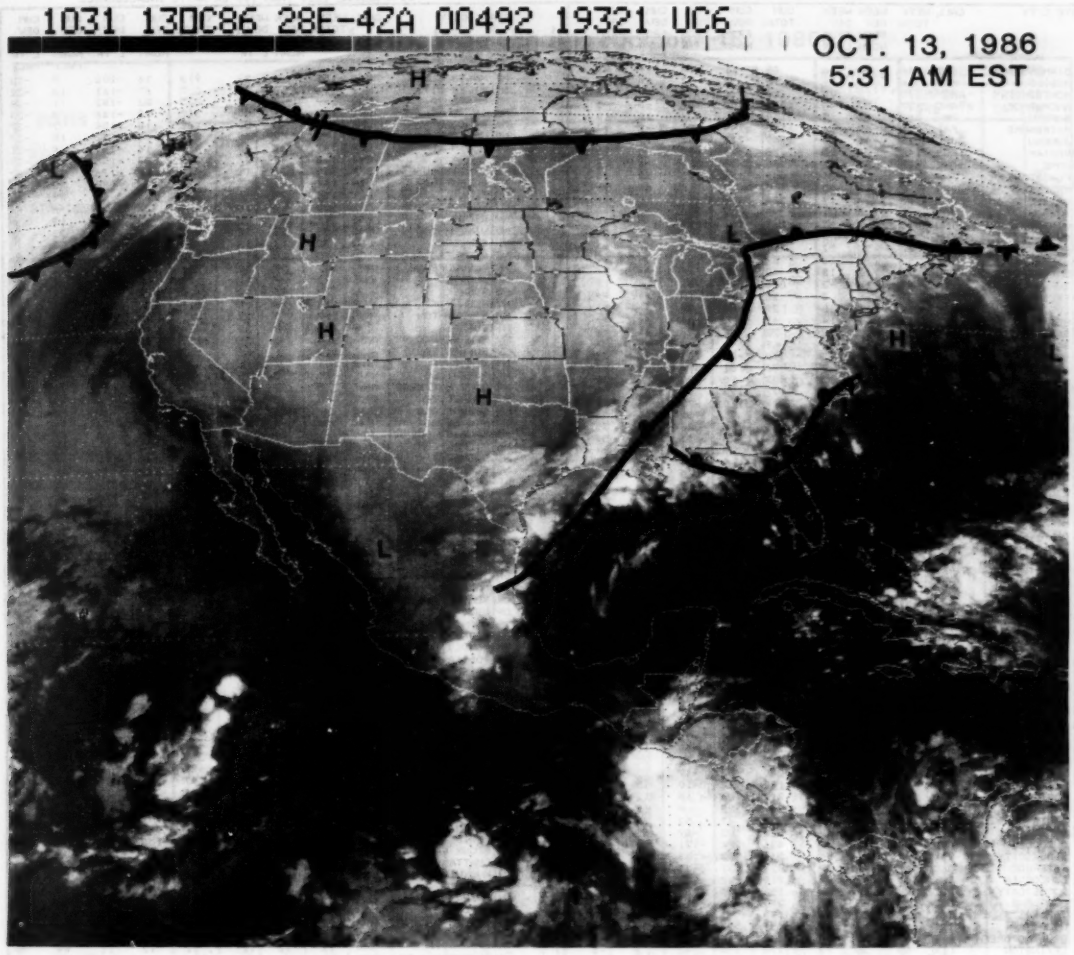


Point values may differ on these computerized maps from the reported values in the tables.




CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
October 18, 1986
ISSUED WEEKLY
SLIGHTLY DRY
FAVORABLY MOIST
FAVORABLY MOIST
FAVORABLY MOIST
SLIGHTLY DRY
FAVORABLY MOIST
EXCESSIVELY WET
FAVORABLY MOIST
TOO WET
ABNORMALLY MOIST
FAVORABLY MOIST
EXCESSIVELY DRY
ABNORMALLY DRY
ABNORMALLY DRY
ABNORMALLY MOIST
SLIGHTLY DRY
EXCESSIVELY DRY
EXCESSIVELY DRY
ABNORMALLY MOIST
ABNORMALLY DRY
SLIGHTLY DRY
SLIGHTLY DRY
EXCESSIVELY DRY
CROP MOISTURE:
DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.
USES...APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


CROP MOISTURE INDEX BY DIVISION
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
OCT 18, 1986
(INDEX VALUES ARE IN TENTHS; EXAMPLE: 37=3.7)
ISSUED WEEKLY
MARYLAND
PUERTO RICO
SHADED AREAS:
INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
UNSHADED AREAS:
INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports



AN EXTENSIVE FRONTAL SYSTEM BRINGS SOAKING RAIN TO THE EASTERN UNITED STATES. COLDER AIR SETTLES IN BEHIND THE SYSTEM IN THE GREAT PLAINS AND MISSISSIPPI VALLEY.

DRY AUTUMN WEATHER DOMINATES THE REMAINDER OF THE NATION.

HEATING DEGREE DAYS TABLE

CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 10-18-1986
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY (HDD RGT)	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT
AL BIRMINGHAM	BHM	46	20	46	48	-11	-14	**	**
AL MOBILE	MOB	16	7	16	16	3	-7	**	**
AL MONTGOMERY	MGM	25	10	25	26	-1	3	**	**
AK ANCHORAGE	ANC	157	-53	-44	1376	-108	-80	-7	-5
AK BARROW	BRW	362	9	5	3154	-374	-336	-11	-10
AK FAIRBANKS	FAI	226	-49	-36	1506	-144	-21	-9	-1
AK JUNEAU	JNU	113	-46	-54	1249	-218	-245	-15	-16
AK KODIAK	ADQ	146	-21	-25	1448	-76	-27	-5	-2
AK NOME	OME	289	31	32	2200	-15	124	-1	6
AZ FLAGSTAFF	FLG	158	37	21	809	194	103	32	15
AZ PHOENIX	PHX	0	0	0	0	0	0	**	**
AZ PRESCOTT	PRC	95	27	15	334	138	73	70	28
AZ TUCSON	TUS	7	5	1	9	7	0	**	**
AZ WINSLOW	INW	92	37	7	266	146	29	122	12
AZ YUMA	YUM	0	0	0	0	0	0	**	**
AR FORT SMITH	FSM	66	38	57	71	7	-41	**	**
AR LITTLE ROCK	LMI	57	32	55	67	11	-20	**	**
CA BAKERSFIELD	BFL	19	12	12	42	31	19	**	**
CA EUREKA	EKA	85	10	-3	875	-77	61	-8	7
CA FRESNO	FAT	7	-8	3	22	-5	4	**	**
CA LOS ANGELES	LAX	2	-11	0	29	-52	25	**	**
CA RED BLUFF	RBL	18	1	14	41	12	-1	**	**
CA SACRAMENTO	SAC	18	3	2	72	44	26	**	**
CA SAN DIEGO	SAN	1	-3	0	9	-9	8	**	**
CA SAN FRANCISCO	SFO	30	0	-2	319	-23	101	-7	46
CA STOCKTON	SCK	21	9	3	70	51	6	**	**
CO DENVER	DEN	120	33	7	427	98	-98	30	-19
CO GRAND JUNCTION	GJT	121	54	13	377	173	16	85	4
CO PUEBLO	PUB	127	55	23	349	110	-73	46	-17
CT BRIDGEPORT	BDR	72	11	15	249	71	81	40	48
CT HARTFORD	BDL	104	18	20	415	118	96	40	30
DE WILMINGTON	ILG	72	12	32	188	26	51	16	37
DC WASHINGTON	DCA	56	15	38	127	33	62	**	**
FL APALACHICOLA	AQQ	3	0	3	3	0	1	**	**
FL DAYTONA BEACH	DAB	0	0	0	0	0	0	**	**
FL FORT MEYER	FMY	0	0	0	0	0	0	**	**
FL JACKSONVILLE	JAX	5	2	5	5	-1	3	**	**
FL KEY WEST	EYW	0	0	0	0	0	0	**	**
FL MIAMI	MIA	0	0	0	0	0	0	**	**
FL ORLANDO	MCO	0	0	0	0	0	0	**	**
FL TALLAHASSEE	TLH	15	10	15	15	8	4	**	**
FL TAMPA	TPA	0	0	0	0	0	0	**	**
FL WEST PALM BEACH	PBI	0	0	0	0	0	0	**	**
GA ATLANTA	ATL	44	18	44	70	14	27	**	**
GA AUGUSTA	AGS	23	0	23	33	-7	11	**	**
GA MACON	MCN	31	16	31	44	16	13	**	**
GA SAVANNAH	SAV	16	7	16	22	4	8	**	**
HI HILO-HAWAII	ITO	0	0	0	0	0	0	**	**
HI HONOLULU-OAHU	HNL	0	0	0	0	0	0	**	**
HI KAHULUI-MAUI	OGG	0	0	0	0	0	0	**	**
HI LIHUE-KAUAI	LIH	0	0	0	0	0	0	**	**
ID BOISE	BOI	93	5	-24	505	159	-75	46	-13
ID LEWISTON	LWS	94	5	-6	387	49	-142	14	-27
ID POCATELLO	PIH	132	17	-10	665	167	-75	34	-10
IL CHICAGO	ORD	130	52	71	322	70	-52	28	-14
IL MOLINE	MLI	129	51	81	306	58	-31	23	-9
IL PEORIA	PIA	116	37	77	246	11	-37	5	-13
IL QUINCY	UIN	113	44	81	218	20	-45	10	-17
IL ROCKFORD	RFD	140	52	71	396	70	-24	21	-6
IL SPRINGFIELD	SPI	119	53	94	220	36	-17	20	-7
IN EVANSVILLE	EVV	93	40	80	170	22	-10	15	-6
IN FORT WAYNE	FWA	123	41	83	317	34	14	12	5
IN INDIANAPOLIS	IND	118	49	94	247	38	7	18	3
IN SOUTH BEND	SBN	128	49	79	358	67	52	23	17
IA DES MOINES	DSM	136	59	68	322	83	-89	35	-22
IA DUBUQUE	DBQ	147	51	64	436	74	-121	20	-22
IA SIOUX CITY	SUX	133	51	54	364	83	-133	30	-27
IA WATERLOO	ALO	149	46	59	424	31	-65	8	-13
KS CONCORDIA	CNK	103	47	63	219	39	-133	22	-38
KS DODGE CITY	DDC	90	39	28	198	55	-166	38	-46
KS GOODLAND	GLD	124	42	27	299	9	-213	3	-42
KS TOPEKA	TOP	112	54	67	190	5	-109	3	-36
KS WICHITA	ICT	90	46	50	151	27	-117	22	-44
KY BOWLING GREEN	BWG	86	37	76	149	18	-12	14	-7
KY LEXINGTON	LEX	88	28	77	174	4	-6	2	-3
KY LOUISVILLE	SDF	84	30	73	145	5	1	4	1
LA ALEXANDRIA	AEX	32	19	32	32	12	8	**	**
LA BATON ROUGE	BTR	16	9	16	16	5	1	**	**
LA LAKE CHARLES	LCH	13	7	13	13	3	3	**	**
LA NEW ORLEANS	MSY	12	9	12	12	9	1	**	**
LA SHREVEPORT	SHV	49	35	49	50	28	10	**	**
ME CARIBOU	CAR	135	3	-15	1040	158	311	18	42
ME PORTLAND	PWM	123	9	18	428	89	226	17	56
MD BALTIMORE	BWI	72	17	41	185	46	58	33	46
MD SALISBURY	SBY	62	9	38	164	30	50	22	44
MA BOSTON	BOS	82	10	13	329	82	114	33	53
MA CHATHAM	CHH	80	2	12	351	8	115	2	49
MI ALPENA	APN	148	27	19	740	62	55	9	8
MI DETROIT	DTW	114	25	44	345	14	-10	4	-3
MI FLINT	FNT	132	32	47	450	35	24	8	6
MI GRAND RAPIDS	GRR	133	38	51	469	95	40	25	9
MI HOUGHTON LAKE	HTL	148	26	35	640	-13	6	-2	1
MI LANSING	LAN	137	35	46	484	92	28	23	6
MI MARQUETTE	MQT	191	51	56	1031	166	22	19	2
MI MUSKEGON	MKG	136	30	47	482	93	46	24	11
MI SAULT ST MARIE	SSM	155	21	9	925	81	77	10	9
MN ALEXANDRIA	AXN	169	47	35	661	97	-83	17	-11
MN DULUTH	DLH	191	52	37	1004	161	-59	19	-6
MN INT'L FALLS	INL	179	31	21	988	93	-108	10	-10
MN MINNEAPOLIS	MSP	151	43	20	535	120	-81	29	-13
MN ROCHESTER	RST	173	63	42	628	152	-72	32	-10
MN SAINT CLOUD	STC	162	41	9	687	110	-105	19	-13
MS GREENWOOD	GWO	41	15	41	44	-13	-9	**	**
MS JACKSON	JAN	33	15	33	33	0	-24	**	**
MS MERIDIAN	MEI	34	10	34	34	-15	-21	**	**
MO CAPE GIRARDEAU	CGI	80	34	69	119	6	-29	5	-20
MO COLUMBIA	COU	103	45	82	177	12	-47	7	-21
MO KANSAS CITY	MCI	113	39	74	197	48	-111	32	-36
MO SAINT LOUIS	STL	91	38	86	157	6	19	4	14
MO SPRINGFIELD	SGF	103	53	80	172	26	-24	18	-12
MT BILLINGS	BIL	98	-6	12	600	115	-159	24	-21
MT GLASGOW	GGW	112	-12	-24	687	67	-270	11	-28
MT GREAT FALLS	GTF	86	-28	-32	728	104	-325	17	-31
MT HAVRE	HVR	119	-8	-13	775	124	-240	19	-24
MT HELENA	HLN	143	9	17	834	105	-167	14	-17
MT KALISPELL	FCA	158	4	22	913	16	-200	2	-18
MT MILES CITY	MLS	112	2	2	567	67	-161	13	-22
MT MISSOULA	MSO	149	6	1	805	82	-182	11	-18
NE GRAND ISLAND	GRI	126	49	50	317	13	-166	4	-34
NE LINCOLN	LNK	118	44	55	268	18	-158	7	-37
NE NORFOLK	OFK	135	47	60	383	34	-142	10	-27
NE NORTH PLATTE	LBF	147	48	49	401	16	-183	4	-31
NE OMAHA	ON4	122	49	66	288	63	-156	28	-35
NE SCOTTSBLUFF	BFF	130	31	11	469	69	-176	17	-27
NE VALENTINE	VTN	144	40	57	533	128	-98	32	-16
NV ELY	ELY	154	25	-9	808	179	23	28	3
NV LAS VEGAS	LAS	20	9	16	39	27	20	**	**
NV RENO	RNO	113	13	-9	536	63	31	13	-6
NV WINNEMUCCA	WMC	138	27	-18	640	156	-48	32	-6
NH CONCORD	CON	132	16	18	664	153	207	30	45
NJ ATLANTIC CITY	ACY	75	10	27	232	72	70	45	43
NM ALBUQUERQUE	ABQ	107	57	30	229	126	38	122	20
NM CLOVIS	CVS	72	27	17	127	5	-104	4	-45
NM ROSWELL	ROW	73	45	41	105	47	-28	**	**
NY ALBANY	ALB	115	16	18	511	121	153	31	43
NY BINGHAMTON	BGM	117	7	13	511	38	47	8	10
NY BUFFALO	BUF	106	13	25	424	46	91	12	27
NY NEW YORK	LGA	60	8	21	155	13	63	9	68
NY ROCHESTER	ROC	112	21	19	517	148	136	40	36
NY SYRACUSE	SYR	101	7	17	471	96	127	26	37
NC ASHEVILLE	AVL	81	20	25	173	-10	-19	-5	-10
NC CAPE HATTERAS	HAT	5	-9	5	5	-19	5	**	**
NC CHARLOTTE	CLT	40	6	40	63	-14	4	**	**
NC GREENSBORO	GSO	56	10	51	109	4	-17	4	-13
NC NEW BERN	EWN	24	-1	24	25	-29	16	**	**
NC RALEIGH DURHAM	RDU	51	14	51	92	8	24	**	**
NC WILMINGTON	ILM	25	8	25	28	-4	16	**	**
ND BISMARCK	BIS	135	10	-11	713	102	-163	17	-19
ND FARGO	FAR	147	23	1	694	122	-125	21	-15
ND GRAND FORKS	GFK	152	19	-5	723	32	-214	5	-23
ND WILLISTON	ISN	134	3	-20	803	145	-173	22	-18
OH AKRON-CANTON	CAK	101	16	47	324	22	21	7	7
OH CLEVELAND	CLE	100	20	35	291	-12	-27	-4	-8
OH COLUMBUS	CMH	99	23	70	247	2	17	1	7
OH CINCINNATI	CVG	101	34	80	216	22	11	11	5
OH DAYTON	DAY	112	38	85	267	42	21	19	9
OH TOLEDO	TOL	118	27	55	365	38	0	12	0
OH YOUNGSTOWN	YNG	107	14	31	407	37	40	10	11
OK OKLAHOMA CITY	OKC	64	38	45	84	19	-77	**	**
OK TULSA	TUL	68	41	56	90	19	-25	**	**
OR ASTORIA	AST	90	8	-4	729	37	-39	5	-5
OR BURNS	4BW	139	23	-15	858	314	-124	58	-13
OR MEDFORD	MFR	72	-1	-18	344	78	-37	29	-12
OR PENDLETON	PDT	95	11	8	421	91	-87	28	-17
OR PORTLAND	PDX	71	-1	-10	306	-47	-12	-13	-4
OR SALEM	SLE	90	8	-8	439	17	-5	4	-1
PA ALLENTOWN	ABE	87	8	14	315	52	61	20	24
PA ERIE	ERI	101	9	29	315	-63	58	-17	23
PA HARRISBURG	CXY	94	25	42	270	65	101	32	60
PA PHILADELPHIA	PHL	69	12	32	175	24	47	16	37
PA PITTSBURGH	PIT	95	10	45	311	13	23	4	8
PA SCRANTON	AVP	103	12	14	429	79	91	23	27
RI PROVIDENCE	PVD	85	3	17	362	86	142	31	65
SC CHARLESTON	CHS	20	4	20	27	1	11	**	**
SC COLUMBIA	CAE	36	11	36	47	1	9	**	**
SC FLORENCE	FLO	29	6	29	43	3	22	**	**
SC GREENVILLE	GSP	51	18	51	79	8	3	**	**
SD ABERDEEN	ABR	135	22	3	626	147	-89	31	-12
SD HURON	HON	140	32	24	554	105	-108	23	-
SD RAPID CITY	RAP	123	22	14	620	153	-97	33	-14
SD SIOUX FALLS	FSD	151	43	31	554	136	-122	33	-18
TN CHATTANOOGA	CHA	52	13	32	63	-24	-26	**	**
TN KNOXVILLE	TYS	63	20	63	81	-15	-30	**	**
TN MEMPHIS	MEM	49	20	49	63	3	5	**	**
TN NASHVILLE	BNA	64	25	61	96	-1	-10	**	**
TX ABILENE	ABI	51	34	46	73	39	3	**	**
TX AMARILLO	AMA	89	47	39	193	81	-68	72	-26
TX AUSTIN	AUS	15	8	15	17	10	4	**	**
TX BROWNSVILLE	BRO	12	12	12	12	12	11	**	**
TX CORPUS CHRISTI	CRP	11	11	11	11	11	7	**	**
TX DEL RIO	DRT	23	22	23	27	26	5	**	**
TX EL PASO	ELP	52	36	9	60	36	-30	**	**
TX FORT WORTH	DFW	40	31	40	47	33	2	**	**
TX GALVESTON	GLS	11	11	11	11	11	7	**	**
TX HOUSTON	IAH	21	17	21	21	15	9	**	**
TX LUBBOCK	LBB	71	41	42	118	49	-35	**	**
TX MIDLAND ODESSA	MAF	64	48	52	97	62	13	**	**
TX BEAUMONT	BPT	15	12	15	15	9	8	**	**
TX SAN ANGELO	SJT	50	39	49	66	46	12	**	**
TX SAN ANTONIO	SAT	13	7	13	13	3	-6	**	**
TX VICTORIA	VCT	12	9	12	12	9	5	**	**
TX WACO	ACT	30	23	30	37	30	7	**	**
TX WICHITA FALLS	SPS	58	38	49	68	18	-9	**	**
UT BLANDING	4BL	127	39	1	502	205	45	69	10
UT CEDAR CITY	CDC	119	32	-9	513	215	70	72	16
UT SALT LAKE CITY	SLC	103	23	-2	453	185	85	69	23
UT BURLINGTON	BTV	119	2	10	625	84	169	16	37
VA LYNCHBURG	LYH	75	20	67	184	39	-32	27	-15
VA NORFOLK	ORF	29	-1	26	42	-24	-14	**	**
VA RICHMOND	RIC	56	8	49	131	11	54	9	70
VA ROANOKE	ROA	78	22	65	168	11	42	7	33
WA COLVILLE	63S	139	11	15	637	6	-53	1	-8
WA GUILLAYUTE	UIL	102	1	8	879	9	29	1	3
WA SEATTLE-TACOMA	SEA	95	9	19	488	-47	32	-9	7
WA SPOKANE	GEG	224	6	6	661	110	-83	20	-11
WA WALLA WALLA	ALW	83	12	18	316	73	-28	30	-8
WA YAKIMA	YKM	111	9	-7	527	79	-92	18	-15
WV BECKLEY	BKW	110	23	85	312	-12	39	-4	14
WV CHARLESTON	CRW	80	14	73	182	-7	58	-4	47
WV HUNTINGTON	HTS	77	13	70	171	-25	18	-13	12
WV PARKERSBURG	PKB	82	19	62	217	23	28	12	15
WI GREEN BAY	GRB	157	45	54	601	101	63	20	12
WI LACROSSE	LSE	144	44	50	434	62	-79	17	-15
WI MADISON	MSN	145	37	51	512	73	-13	17	-2
WI MILWAUKEE	MKE	140	42	57	410	43	-2	12	0
WI WAUSAU	AUW	172	54	53	653	91	-18	16	-3
WY CASPER	CPR	136	17	2	651	99	-153	18	-19
WY CHEYENNE	CYS	149	31	12	674	112	-123	20	-15
WY LANDER	LND	137	16	9	657	84	-123	15	-16
WY SHERIDAN	SHR	114	-6	-9	669	60	-166	10	-20

National Weather Data for Selected Cities

Weather Data for the Week Ending October 18, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	70	48	74	38	59	-4	1.9	1.4	1.1	7.2	121	28.8	64	97	52	0	0	2	2
MOBILE	75	55	83	44	65	-4	1.3	.8	.7	7.2	86	45.1	82	96	53	0	0	2	2
MONTGOMERY	73	52	79	41	63	-3	2.2	1.7	2.2	7.3	117	38.0	94	96	50	0	0	2	1
AK ANCHORAGE	48	37	56	26	43	8	.5	.1	.3	6.6	184	15.9	128	94	57	0	2	3	0
BARROW	19	7	28	-10	13	-2	.1	0	0	1.9	203	3.9	95	91	74	0	7	4	0
FAIRBANKS	38	27	55	19	33	7	.1	0	.1	2.2	141	8.8	101	98	75	0	6	3	0
JUNEAU	52	45	54	38	49	6	3.9	2.0	1.3	10.6	96	44.9	112	98	76	0	0	7	3
KODIAK	50	38	54	26	44	3	1.4	-1.0	.5	10.2	76	57.5	101	94	68	0	2	5	1
NOME	32	15	35	5	23	-5	.2	-.1	.1	7.7	243	15.2	120	81	53	0	7	4	0
AZ PHOENIX	85	61	93	55	73	0	T	-.1	T	.9	87	6.2	113	63	21	2	0	1	0
PRESCOTT	68	35	75	28	51	-4	0	-.3	0	3.1	142	11.2	73	71	27	0	3	0	0
TUCSON	84	53	91	44	69	-2	T	-.2	T	.8	43	10.1	109	71	20	1	0	1	0
YUMA	86	59	93	55	72	-4	0	-.1	0	.4	86	1.5	75	53	17	1	0	0	0
AR FORT SMITH	69	42	81	35	55	-8	.2	-.5	.1	5.6	111	33.6	104	96	43	0	0	2	0
LITTLE ROCK	67	46	76	41	57	-7	1.0	.4	.9	4.1	76	31.6	87	80	53	0	0	2	1
CA BAKERSFIELD	79	47	87	42	63	-5	0	-.1	0	.1	21	4.3	100	74	27	0	0	0	0
EUREKA	58	47	64	43	53	-2	.4	-.2	.3	3.2	154	30.6	123	99	84	0	0	3	0
FRESNO	80	52	86	50	66	0	0	-.1	0	.4	112	10.1	136	79	30	0	0	0	0
LOS ANGELES	74	57	81	55	66	-1	0	0	0	1.5	906	14.5	167	88	45	0	0	0	0
REDDING	75	44	81	40	60	--	.2	.2	.1	2.4		2.4		77	29	0	0	2	0
SACRAMENTO	76	48	83	47	62	-2	T	-.1	T	.7	113	17.0	148	94	32	0	0	1	0
SAN DIEGO	73	59	79	54	66	-2	0	-.1	0	2.4	784	10.1	151	84	49	0	0	0	0
SAN FRANCISCO	70	51	79	48	61	0	T	-.2	T	.5	72	19.1	145	96	52	0	0	0	0
CO DENVER	63	32	74	24	48	-5	T	-.2	T	1.5	80	9.9	73	72	23	0	3	0	0
GRAND JUNCTION	61	35	72	28	48	-8	.2	0	.2	2.3	190	6.8	106	82	32	0	3	2	0
PUEBLO	65	28	74	24	47	-8	T	-.2	T	1.1	83	9.5	97	89	25	0	7	0	0
CT BRIDGEPORT	61	49	70	41	55	-2	.5	-.3	.4	2.6	50	23.9	74	83	55	0	0	2	0
HARTFORD	60	39	72	30	50	-3	.4	-.4	.4	2.5	42	32.3	93	91	52	0	3	1	0
DC WASHINGTON	65	49	76	42	57	-3	1.0	.4	.6	1.6	33	21.4	67	88	52	0	0	2	1
FL APALACHICOLA	79	62	89	53	70	0	1.5	.9	.9	17.8	162	51.1	107	91	55	0	0	2	2
DAYTONA BEACH	84	66	92	55	75	2	T	-1.0	T	5.9	61	38.5	92	89	53	1	0	1	0
JACKSONVILLE	80	60	90	50	70	0	.1	-.6	.1	2.9	30	35.7	76	97	55	1	0	2	0
KEY WEST	87	77	89	73	82	2	1.5	.4	1.1	6.3	66	27.9	85	88	61	0	0	2	1
MIAMI	88	73	91	69	81	3	.8	-.9	.8	5.5	43	56.3	112	90	55	3	0	2	1
ORLANDO	87	68	93	60	77	2	0	-.6	0	8.4	111	42.7	99	90	51	3	0	0	0
TALLAHASSEE	79	55	87	43	67	-2	.2	-.4	.2	5.1	60	54.3	97	97	49	0	0	1	0
TAMPA	86	67	91	59	76	2	.1	-.4	.1	6.9	87	34.9	83	90	51	2	0	1	0
WEST PALM BEACH	87	73	89	65	80	2	2.1	.3	1.2	6.7	47	46.8	91	91	56	0	0	2	2
GA ATLANTA	67	49	71	43	58	-4	2.6	2.0	2.1	7.1	152	29.5	74	93	57	0	0	2	2
AUGUSTA	75	52	81	42	63	0	.7	.3	.6	3.4	71	36.5	98	98	51	0	0	2	1
MACON	74	50	83	41	62	-3	1.0	.6	.9	7.3	160	27.6	73	99	52	0	0	2	1
SAVANNAH	77	56	88	45	67	0	.3	-.2	.3	1.7	25	35.5	80	96	50	0	0	1	0
HI HILO	84	69	86	66	77	2	1.1	-1.1	.4	20.2	173	122.9	129	93	62	0	0	5	0
HONOLULU	90	75	91	73	82	2	.2	-.2	.2	2.4	157	7.6	48	87	50	5	0	3	0
KAHULUI	87	70	90	65	79	1	T	-.2	T	T	4	10.7	76	89	54	1	0	0	0
LIHUE	84	74	85	70	79	2	.4	-.6	.3	3.9	84	18.5	60	85	65	0	0	3	0
ID BOISE	66	37	74	31	52	-1	0	-.1	0	2.9	309	12.9	148	78	28	0	2	0	0
LEWISTON	66	37	70	33	51	-1	0	-.2	0	.9	76	8.5	87	74	34	0	0	0	0
POCATELLO	64	28	73	18	46	-3	.3	.1	.3	1.6	136	11.2	130	82	22	0	6	1	0
IL CHICAGO	54	38	64	32	46	-8	.1	-.4	.1	10.1	212	28.4	100	90	55	0	1	1	0
MOLINE	57	35	67	31	46	-8	.9	.3	.7	8.2	150	36.0	111	96	54	0	1	2	1
PEORIA	59	38	69	33	48	-6	.3	-.3	.2	9.4	179	31.9	106	96	53	0	0	2	0
QUINCY	60	37	68	33	49	-7	.2	-.6	.1	13.2	211	36.0	110	95	51	0	0	2	0
ROCKFORD	54	35	62	29	45	-8	.5	-.2	.4	11.2	203	31.4	100	93	56	0	1	2	0
SPRINGFIELD	59	36	65	32	48	-9	.3	-.3	.3	10.2	223	30.4	106	97	49	0	1	2	1
IN EVANSVILLE	62	41	68	35	51	-6	.9	.3	.8	5.7	141	31.9	95	96	56	0	0	2	0
FORT WAYNE	55	39	65	33	47	-6	.7	.2	.4	7.3	185	38.6	136	96	60	0	0	3	0
INDIANAPOLIS	57	39	64	33	48	-7	.6	0	.3	12.2	292	41.0	128	93	55	0	0	2	0
SOUTH BEND	54	39	66	34	47	-7	.4	-.4	.3	7.7	149	31.9	103	94	59	0	0	2	0
IA DES MOINES	55	35	73	29	45	-10	T	-.5	T	8.1	183	38.4	140	92	50	0	2	1	0
SIOUX CITY	59	33	74	25	46	-8	T	-.4	T	7.2	197	30.5	132	91	40	0	4	0	0
WATERLOO	54	33	68	27	43	-8	.2	-.4	.2	7.1	143	33.0	112	98	57	0	4	2	0
KS CONCORDIA	62	38	75	31	50	-8	0	-.4	0	8.9	212	37.1	150	89	42	0	1	2	0
DODGE CITY	66	38	77	29	52	-7	0	-.3	0	1.8	66	18.3	97	89	33	0	3	0	0
GOODLAND	63	31	76	25	47	-6	0	-.2	0	2.5	124	14.4	96	87	34	0	6	0	0
TOPEKA	61	36	75	33	49	-9	.1	-.6	.1	8.8	169	34.6	118	97	45	0	0	1	0
WICHITA	64	40	77	35	52	-8	T	-.6	T	7.1	141	29.1	115	91	39	0	0	2	0
KY BOWLING GREEN	64	41	72	33	53	-6	.2	-.4	.1	5.1	108	24.2	62	98	57	0	0	2	0
LEXINGTON	62	43	68	33	52	-5	.4	-.1	.3	4.2	92	24.1	64	93	56	0	0	3	0
LOUISVILLE	62	43	66	35	53	-5	.3	-.3	.3	4.8	98	29.2	82	94	54	0	0	2	0
LA ALEXANDRIA	71	51	75	46	61	-8	1.3	.4	.8	5.0	102	31.3	72	95	56	0	0	2	2
BATON ROUGE	74	54	80	47	64	-4	3.3	2.7	2.0	5.5	91	39.8	87	94	53	0	0	2	2
LAKE CHARLES	74	54	77	48	64	-6	2.7	2.0	2.2	9.2	125	38.5	90	96	51	0	0	2	2
NEW ORLEANS	76	57	85	48	66	-3	1.4	.8	.8	3.3	43	33.9	69	94	57	0	0	2	2

Based on 1951-80 normals.

Weather Data for the Week Ending October 18, 1986

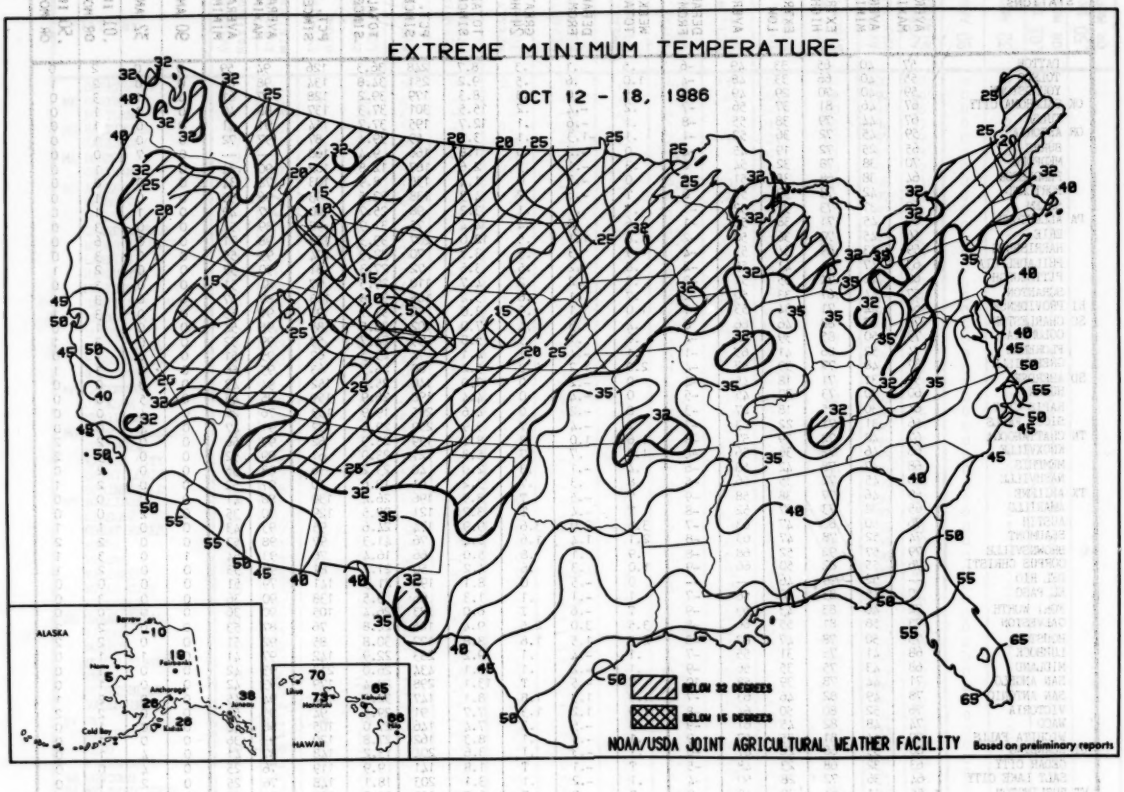
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.5[illegible] INCH OR MORE
SHREVEPORT	71	44	79	39	58	-9	2.2	1.7	2.0	6.5	137	40.7	116	100	52	0	0	2	1
ME CARIBOU	49	36	58	26	43	-1	.3	-.4	.3	4.4	82	28.2	98	92	60	0	4	1	0
PORTLAND	56	38	61	28	47	-2	.4	-.4	.4	4.0	75	32.7	100	91	56	0	3	3	0
MD BALTIMORE	64	45	76	37	54	-3	1.1	.4	.7	1.7	32	21.4	63	94	53	0	0	2	1
SALISBURY	67	45	74	35	56	-2	.6	-.3	.5	2.2	36	22.3	60	97	49	0	0	3	1
MA BOSTON	59	47	71	40	53	-2	.6	-.2	.4	3.1	59	30.7	91	85	59	0	0	2	0
CHATHAM	59	47	65	43	53	-1	2.7	1.9	2.4	5.3	91	38.5	108	90	69	0	0	3	1
MI ALPENA	51	36	64	21	44	-4	.3	-.1	.2	9.5	230	28.5	120	98	63	0	2	5	0
DETROIT	55	41	65	32	48	-4	.9	.4	.5	10.2	294	32.9	131	97	64	0	1	3	1
FLINT	53	38	65	28	46	-5	.4	-.1	.4	12.6	352	34.8	145	97	65	0	1	3	0
GRAND RAPIDS	53	39	66	28	46	-6	.3	-.4	.1	14.4	300	45.4	164	94	65	0	1	4	0
HOUGHTON LAKE	50	38	61	22	44	-4	.2	-.3	.1	10.9	263	32.1	140	94	64	0	2	4	0
LANSING	53	38	66	27	45	-6	.5	.1	.4	10.7	284	34.7	145	96	66	0	2	3	0
MARQUETTE	44	31	54	26	38	-7	1.9	1.2	1.0	6.7	114	28.2	92	98	61	0	5	5	1
MUSKEGON	53	38	63	30	45	-6	.6	-.1	.2	15.5	343	32.8	132	94	59	0	1	5	0
SAULT STE. MARIE	50	35	61	26	43	-3	1.5	.9	1.1	8.0	142	32.5	123	95	61	0	4	4	1
MN ALEXANDRIA	51	31	62	22	41	-7	T	-.4	T	4.5	131	32.3	148	94	53	0	4	1	0
DULUTH	43	31	56	30	37	-8	.3	-.2	.2	6.9	149	33.9	131	95	67	0	5	3	0
INT'L FALLS	46	33	63	29	39	-5	T	-.4	T	3.0	69	16.6	77	92	59	0	3	1	0
MINNEAPOLIS	52	35	61	32	43	-7	.1	-.3	.1	8.3	229	35.3	150	94	57	0	3	1	0
ROCHESTER	49	31	61	27	40	-10	T	-.5	T	13.6	311	38.4	152	96	62	0	6	1	0
MS GREENWOOD	71	47	77	39	59	-5	2.2	1.6	2.0	5.2	108	25.3	61	96	53	0	0	2	1
JACKSON	72	49	77	41	61	-4	2.4	1.9	1.8	6.4	127	34.5	82	100	56	0	0	2	2
MERIDIAN	72	49	75	40	61	-3	2.3	1.7	1.8	5.5	108	33.1	77	98	54	0	0	2	2
MO CAPE GIRARDEAU	64	42	71	37	53	--	1.0	.6	.6	4.4	86	34.5	96	96	59	0	0	2	1
COLUMBIA	61	39	68	34	50	-8	.2	-.6	.2	12.5	218	34.2	111	95	55	0	0	1	0
KANSAS CITY	59	38	72	32	49	-10	T	-.7	T	12.6	205	35.9	115	95	50	0	1	1	0
SAINT LOUIS	61	42	67	36	52	-7	.2	-.3	.2	11.9	293	30.8	109	91	54	0	0	2	0
SPRINGFIELD	62	38	75	31	50	-9	.1	-.6	.1	15.2	244	35.6	109	97	56	0	1	2	0
MT BILLINGS	66	36	72	23	51	1	0	-.3	0	1.6	79	12.9	99	59	20	0	1	0	0
GLASGOW	64	33	71	24	49	2	0	-.1	0	4.5	361	12.5	117	87	32	0	2	0	0
GREAT FALLS	68	37	73	32	52	4	0	-.2	0	2.3	145	13.1	98	58	21	0	1	0	0
HAVRE	65	31	70	23	48	1	0	-.1	0	5.9	460	16.5	165	68	30	0	5	0	0
HELENA	63	26	66	20	44	-2	0	-.1	0	2.5	202	11.1	111	90	27	0	7	0	0
KALISPELL	59	25	62	24	42	-1	0	-.2	0	3.0	182	14.8	117	99	40	0	7	0	0
MILES CITY	65	33	71	22	49	-1	0	-.2	0	3.5	219	15.0	119	83	30	0	2	0	0
MISSOULA	60	27	62	22	43	-1	0	-.2	0	3.9	249	14.9	137	93	38	0	7	0	0
NE GRAND ISLAND	61	32	77	24	47	-7	T	-.2	T	5.5	168	22.9	107	91	36	0	4	0	0
LINCOLN	61	35	76	28	48	-7	T	-.4	T	9.8	244	36.2	147	91	40	0	2	0	0
NORFOLK	60	32	75	22	46	-7	T	-.3	T	5.2	176	29.0	132	94	36	0	4	0	0
NORTH PLATTE	62	25	76	13	44	-7	0	-.2	0	2.3	102	16.2	89	95	34	0	6	0	0
OMAHA	58	36	74	29	47	-7	T	-.5	T	10.4	220	34.5	126	89	52	0	2	1	0
SCOTTSBLUFF	64	29	75	24	46	-5	T	-.2	T	2.5	159	19.8	149	89	27	0	6	0	0
VALENTINE	63	26	78	16	44	-6	0	-.2	0	3.2	164	18.7	116	81	29	0	6	0	0
NV ELY	61	24	68	18	43	-4	.2	0	.2	2.3	212	7.9	107	72	24	0	7	1	0
LAS VEGAS	76	48	81	42	62	-6	0	-.1	0	.1	20	1.3	39	33	13	0	0	0	0
RENO	69	28	76	24	49	-2	0	-.1	0	.3	71	8.8	160	74	15	0	6	0	0
WINNEMUCCA	68	23	75	16	45	-4	0	-.1	0	1.5	218	5.2	87	64	14	0	6	0	0
NH CONCORD	56	36	62	25	46	-3	.4	-.3	.4	3.5	71	31.0	110	94	54	0	4	2	0
NJ ATLANTIC CITY	66	42	78	34	54	-2	2.5	1.8	1.6	5.2	114	29.8	90	95	54	0	0	2	2
NM ALBUQUERQUE	61	38	74	31	49	-9	.3	.1	.3	2.0	144	11.3	164	87	37	0	2	1	0
CLOVIS	68	41	75	33	55	-5	T	-.4	T	4.7	153	16.5	106	64	30	0	0	1	0
ROSWELL	68	40	80	36	54	-8	.2	0	.2	8.5	360	20.3	233	87	33	0	0	1	0
NY ALBANY	58	39	68	31	48	-2	.6	0	.6	4.0	81	34.8	122	99	58	0	2	2	1
BINGHAMTON	55	41	65	34	48	-1	.5	-.2	.2	4.9	97	35.4	120	91	61	0	0	4	1
BUFFALO	57	43	69	34	50	-2	1.4	.7	.9	7.8	155	32.1	110	96	64	0	0	5	1
NEW YORK	62	50	73	46	56	-2	.5	-.2	.3	3.1	58	27.2	80	83	54	0	0	2	1
ROCHESTER	57	40	68	30	49	-3	1.5	1.0	1.0	7.6	186	29.7	119	97	62	0	1	5	1
SYRACUSE	58	42	68	32	50	-1	1.3	.6	.9	8.1	158	35.0	113	94	58	0	1	4	1
NC ASHEVILLE	64	43	70	33	53	-3	1.1	.4	1.0	5.3	90	23.1	58	96	56	0	0	3	1
CHARLOTTE	68	51	79	44	60	-1	1.2	.6	1.0	2.7	51	18.6	52	91	55	0	0	3	1
GREENSBORO	66	47	77	37	57	-2	1.6	.9	1.1	2.7	48	21.0	59	96	57	0	0	2	1
HATTERAS	74	63	84	58	69	4	.4	-.6	.3	1.6	19	37.4	84	85	62	0	0	3	1
NEW BERN	75	55	85	44	65	1	.6	-.2	.6	2.5	32	37.4	83	96	60	0	0	1	0
RALEIGH	70	48	80	38	59	-1	.2	-.4	.2	1.4	29	30.3	88	96	49	0	0	1	0
WILMINGTON	75	55	86	43	65	0	.6	-.1	.6	3.1	40	47.7	104	93	52	0	0	1	0
ND BISMARCK	60	31	72	23	46	-2	0	-.2	0	4.7	246	22.1	157	93	37	0	4	0	0
FARGO	55	32	66	23	44	-4	T	-.3	T	3.7	138	21.8	123	88	49	0	3	0	0
GRAND FORKS	55	31	67	25	43	-3	T	-.2	T	2.6	95	13.9	84	87	46	0	4	0	0
WILLISTON	63	29	75	19	46	-1	0	-.1	0	3.8	206	20.5	164	94	38	0	5	0	0
OH AKRON-CANTON	59	42	70	34	51	-2	.7	.2	.3	6.1	142	24.6	83	95	61	0	0	3	0
CINCINNATI	59	42	66	34	50	-5	.4	-.2	.2	5.9	137	26.6	81	93	57	0	0	3	0
CLEVELAND	57	44	70	35	51	-3	.5	-.1	.2	8.7	201	34.3	110	93	63	0	0	4	0
COLUMBUS	59	42	70	33	51	-4	.4	0	.2	7.1	184	28.8	93	95	55	0	0	2	0

Based on 1951-80 normals.

Weather Data for the Week Ending October 18, 1986

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	57	40	65	33	49	-6	.5	.1	.3	8.7	248	36.3	126	94	59	0	0	2	0
TOLEDO	55	40	66	33	48	-4	1.0	.6	.5	9.2	251	34.8	134	98	65	0	0	2	1
YOUNGSTOWN	59	40	70	29	49	-3	.5	0	.3	8.3	179	39.2	128	97	61	0	1	3	0
OK OKLAHOMA CITY	67	46	81	37	56	-7	.2	-.4	.2	15.5	301	37.3	137	88	40	0	0	1	0
TULSA	67	44	79	38	55	-8	.1	-.6	.1	12.7	195	37.7	114	91	41	0	0	1	0
OR ASTORIA	59	45	72	36	52	-1	.1	-1.3	.1	3.7	59	39.4	87	97	72	0	0	1	0
BURNS	65	25	72	19	45	-4	0	-.2	0	1.8	166	9.4	168	—	—	0	7	0	0
MEDFORD	70	38	78	32	54	0	.3	-.1	.3	2.6	167	12.8	102	90	34	0	1	1	0
PENDLETON	64	38	68	35	51	-2	0	-.2	0	1.4	136	8.9	103	74	34	0	0	0	0
PORTLAND	67	42	73	39	55	0	T	-.6	T	4.3	138	22.5	93	96	50	0	0	1	0
SALEM	67	37	73	32	52	-1	.1	-.7	.1	3.2	98	25.7	100	97	49	0	1	1	0
PA ALLENTOWN	60	45	71	38	52	-1	.6	0	.4	4.4	75	31.9	90	89	54	0	0	3	0
ERIE	56	45	70	36	50	-2	1.8	1.1	.5	12.0	207	39.3	127	98	71	0	0	6	0
HARRISBURG	59	43	69	34	51	-4	.9	.3	.5	3.7	70	32.9	104	93	55	0	0	3	0
PHILADELPHIA	63	47	74	41	55	-2	.8	.2	.5	3.6	72	27.3	81	90	57	0	0	2	1
PITTSBURGH	60	42	74	35	51	-2	.3	-.2	.2	4.7	110	29.5	97	84	51	0	0	3	0
SCRANTON	57	44	67	33	50	-2	.7	.1	.6	5.2	105	37.8	133	89	57	0	0	3	1
RI PROVIDENCE	62	44	71	34	53	-1	1.0	.1	.9	3.0	52	31.7	91	91	53	0	0	3	1
SC CHARLESTON	76	57	88	46	66	0	.4	-.3	.4	7.0	102	38.5	85	95	54	0	0	1	0
COLUMBIA	73	50	85	39	62	-2	.6	.1	.5	5.8	99	24.7	59	99	52	0	0	3	1
FLORENCE	74	52	86	41	63	-1	.1	-.4	.1	4.1	74	23.5	62	95	51	0	0	1	0
GREENVILLE	67	48	77	39	57	-4	2.0	1.2	2.0	5.2	80	26.3	63	95	56	0	0	3	1
SD ABERDEEN	59	31	71	18	45	-4	0	-.2	0	3.0	140	25.0	152	94	43	0	3	0	0
HURON	60	30	73	20	45	-5	0	-.4	0	4.4	198	26.9	159	95	45	0	5	0	0
RAPID CITY	64	30	75	18	47	-3	0	-.2	0	4.6	295	19.9	133	76	26	0	4	0	0
SIOUX FALLS	56	31	71	22	43	-7	T	-.4	T	9.9	259	29.0	132	91	47	0	4	0	0
TN CHATTANOOGA	67	48	72	39	57	-3	1.6	1.0	.8	8.4	139	25.9	62	99	56	0	0	2	2
KNOXVILLE	66	46	72	36	56	-4	1.3	.7	.7	5.8	127	23.0	61	99	52	0	0	3	2
MEMPHIS	68	47	78	42	58	-6	.4	-.1	.3	2.0	40	23.2	56	98	55	0	0	2	0
NASHVILLE	66	45	72	35	56	-5	.8	.3	.7	3.2	61	19.6	50	97	52	0	0	2	1
TX ABILENE	69	46	77	38	58	-9	T	-.5	T	8.9	196	26.4	130	88	41	0	0	0	0
AMARILLO	65	38	73	27	52	-8	T	-.4	T	3.2	121	22.5	129	90	35	0	2	0	0
AUSTIN	76	50	80	47	63	-7	3.6	2.9	3.6	9.9	174	24.6	95	93	43	0	0	1	1
BEAUMONT	74	52	78	47	63	-8	2.1	1.4	1.6	6.4	76	41.3	97	98	53	0	0	2	2
BROWNSVILLE	79	57	92	52	68	-8	.9	.1	.8	5.0	66	16.4	76	93	54	1	0	3	1
CORPUS CHRISTI	76	55	82	50	66	-9	1.0	.3	.6	4.2	50	21.2	81	92	53	0	0	2	1
DEL RIO	—	52	-999	46	—	—	0	-.5	0	8.1	192	21.3	141	79	51	0	0	0	0
EL PASO	70	45	83	40	58	-7	.1	-.1	.1	1.3	66	9.5	138	90	36	0	0	3	0
FORT WORTH	72	46	83	43	59	-9	T	-.6	T	6.0	123	26.4	105	90	36	0	0	0	0
GALVESTON	73	58	81	55	66	-8	3.5	3.0	2.5	9.4	125	24.8	76	87	53	0	0	2	2
HOUSTON	73	50	78	47	62	-8	2.3	1.5	1.6	8.8	122	30.8	85	92	51	0	0	2	2
LUBBOCK	68	41	75	31	55	-7	.1	-.4	.1	9.2	283	22.9	142	97	41	0	1	1	0
MIDLAND	68	43	75	35	56	-9	.1	-.2	.1	13.1	434	26.0	213	93	42	0	0	1	0
SAN ANGELO	71	44	78	39	58	-10	T	-.5	T	13.1	298	28.4	179	93	42	0	0	1	0
SAN ANTONIO	78	49	82	46	63	-7	1.9	1.3	1.8	8.1	147	32.5	134	94	45	0	0	2	1
VICTORIA	76	52	80	50	64	-8	1.9	1.2	1.3	7.7	91	29.5	94	95	50	0	0	2	2
WACO	74	48	82	45	61	-9	.3	-.5	.3	7.4	146	27.0	105	96	40	0	0	1	0
WICHITA FALLS	70	44	81	35	57	-9	.1	-.5	.1	8.3	162	27.8	120	93	36	0	0	1	0
UT BLANDING	60	33	68	22	47	-6	.1	-.3	.1	3.6	204	13.2	148	87	41	0	4	1	0
CEDAR CITY	63	32	68	23	48	-5	T	-.1	T	4.8	141	9.9	119	76	25	0	4	0	0
SALT LAKE CITY	64	36	72	28	50	-4	.1	-.2	.1	3.1	203	18.1	148	76	25	0	2	1	0
VT BURLINGTON	55	41	64	30	48	0	.8	.2	.7	6.7	139	35.2	129	91	52	0	1	3	1
VA NORFOLK	70	55	82	49	62	1	1.4	.6	1.1	1.6	26	21.2	56	84	52	0	0	2	1
RICHMOND	67	47	80	40	57	-2	1.2	.4	1.0	1.9	33	27.7	77	97	50	0	0	2	1
ROANOKE	63	44	70	33	54	-3	.8	0	.7	3.9	74	22.7	70	97	51	0	0	2	1
WA COLVILLE	59	31	62	27	45	-2	T	-.3	T	3.1	212	18.0	145	91	61	0	4	0	0
QUILLAYUTE	61	39	72	31	50	-1	T	-2.3	T	3.8	35	69.1	100	99	68	0	1	2	0
SEATTLE-TACOMA	60	43	68	40	51	-2	0	-.7	0	1.9	51	22.5	90	98	64	0	0	0	0
SPOKANE	61	33	65	30	47	-1	0	-.2	0	1.6	130	11.7	101	95	41	0	4	0	0
YAKIMA	67	31	69	26	49	-2	0	-.1	0	2.1	383	7.4	135	92	34	0	5	0	0
WV BECKLEY	58	40	67	31	49	-4	1.0	.4	.8	6.3	130	30.6	87	97	59	0	3	3	1
CHARLESTON	64	43	76	34	54	-3	1.3	.7	.8	5.3	118	34.6	98	99	54	0	0	3	1
HUNTINGTON	64	44	74	33	54	-3	1.2	.7	.8	5.3	119	28.9	86	98	54	0	0	3	1
PARKERSBURG	62	44	74	33	53	-3	.6	.2	.5	6.8	166	29.9	85	96	53	0	0	2	0
WI GREEN BAY	49	35	60	29	42	-7	.3	-.2	.2	9.2	206	29.3	122	97	68	0	3	4	0
LA CROSSE	52	36	63	30	44	-8	.1	-.4	.1	11.1	230	30.3	113	91	51	0	1	2	0
MADISON	53	36	61	29	44	-6	.2	-.3	.1	8.1	183	29.5	111	92	61	0	2	2	0
MILWAUKEE	51	39	63	34	45	-7	.6	.1	.5	8.7	206	39.1	150	87	62	0	0	4	0
WAUSAU	47	33	56	28	40	-8	.7	.2	.6	12.7	237	29.8	107	94	59	0	4	3	1
WY CASPER	62	29	68	18	45	-3	T	-.2	T	3.2	244	13.6	137	75	23	0	5	1	0
CHEYENNE	58	29	69	9	44	-5	T	-.1	T	3.5	236	12.9	106	69	22	0	4	0	0
LANDER	60	31	66	16	45	-2	.1	-.2	.1	2.2	139	9.7	85	66	27	0	3	1	0
SHERIDAN	65	32	72	18	48	1	0	-.3	0	3.6	193	14.0	109	73	26	0	3	0	0
PR SAN JUAN	89	74	91	73	82	0	1.3	0	.5	4.2	46	38.8	94	96	61	2	0	5	1

Based on 1951-80 normals.


EXTREME MINIMUM TEMPERATURE
OCT 12 - 18, 1986
ALASKA
HAWAII
BELOW 32 DEGREES
BELOW 16 DEGREES
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

National Agricultural Summary

October 13 to 19, 1986

HIGHLIGHTS: Lower temperatures and drier weather boosted row crop harvest, but rain kept harvest from making maximum gain in the Corn Belt and southern Great Plains. Dryness continued hampering winter wheat seeding and germination in the Southeast. Soil moisture was adequate except in the Southeast, the Delta, and along the east coast as far north as Delaware. Moisture was short or was becoming short in these areas. Days suitable for fieldwork were varied, averaging 3 to 4 days in the Corn Belt and 4 to 6 days in most other areas.

The lower temperatures increased dry-down that slowed sprouting and mold, but boosted corn and soybean harvest. Corn was 37 percent (%) harvested, 3 percentage points below the 5-year average but 12 points higher than the previous week. Soybean harvest jumped 13 points from the previous week but was still 9 points below the 46% average. Sorghum harvest was 52% finished compared with 48% in 1985 and 56% average. Harvest was behind normal in the central and northern Great Plains and in Texas. Winter wheat was 72% seeded, 4 points behind normal. Seeding was considerably behind normal in the Corn Belt and in Montana. Rice was 95% harvested compared with 86% normally. Livestock was mostly good. Cold weather halted pasture growth in some northern areas.

SMALL GRAINS: Winter wheat was mostly good except in the Southeast where moisture is needed. The crop condition was mostly fair in the Southeast. Winter wheat was 72% seeded compared with 71% last year and 76% average. Seeding was up 6 points from the previous week. In 12 of the 20 major producing States seeding was behind normal, ranging from 1 point behind the average in California to 60 points behind the average in Michigan. Seeding was 22, 23, 25, 29, and 44 points behind normal in Missouri, Montana, Indiana, Illinois, and Ohio, respectively. Producers were still unable to resume planting in Oklahoma. In Kansas, leaf rust showed in early stands. Many fields washed-out earlier needed reseeding. Dryness slowed seeding in the Southeast while scattered rain kept seeding from reaching its full potential in the Corn Belt.

CORN: Corn harvest surged 12 points to 37% completion, 3 points behind normal. Harvest was ahead of normal in Georgia, Illinois, Indiana, Kentucky, Nebraska, and Ohio. Harvest increased 10 points or more from the previous week in Illinois, Indiana, Nebraska, Iowa, Kentucky, and Missouri. Corn lodging was light to moderate in Iowa. A hard freeze in the northern Plains aided crop dry-down and boosted harvest.

SOYBEANS: Ninety-one percent of the soybean acreage reached the leaf droppage stage compared with 91% last year and average. Despite rain in some areas, harvest increased 13 points from the previous week. Thirty-seven percent of the acreage was combined, 9 points below the average. Harvest was 30 points behind normal in Michigan, but producers were able to cut 3% of the acreage this week compared with only 2% cut prior to October 13. Wetness created a 20-point harvest lag in both Indiana and Kansas. In South Dakota harvest was 22 points behind normal but climbed 17 points ahead of the previous week. Sizable harvest gains were also registered in Iowa, Minnesota, Nebraska, and Ohio.

COTTON: Cotton was 37% harvested, 7 points above normal and 3 points greater than in 1985. Seventy-two percent of the acreage reached the boll opening stage, compared with 85% normally. Harvest progress ranged from 1% completion in Oklahoma to 94% completion in Mississippi. Oklahoma's harvest progress was unchanged from the previous week. Low temperatures and light frost hurt cotton development. Cotton harvest ended the week 27 points ahead of normal in Missouri, 32 points ahead in Louisiana and 38 points ahead of average in Mississippi. Arkansas and Tennessee were both 20 points greater than average. In Texas, early planted cotton escaped damage from the hard freeze, but late planted cotton did not fare as well. Some plants were killed in northern areas.

SORGHUM: Sorghum was 90% mature, just slightly above average. Harvest was 4 points below average at 52% completion. Harvest was behind normal in Kansas, Missouri, Oklahoma, South Dakota, and Texas. In Missouri, sprouting reduced sorghum quality.

OTHER CROPS: Rice was 95% harvested, 9 points greater than the average. A few acres remained to be harvested in Arkansas. Harvest was 75% finished in California, exceeding last year and the average by 20 points.

Peanut digging and threshing were active. Digging was ahead of schedule in Mississippi, North Carolina, Virginia, and Texas. Harvest was 28 and 30 points below the average in Alabama and Georgia, respectively. Wet fields delayed harvest in Texas during most of the week.

Tobacco cured well in Kentucky. Burley stripping was 10% complete, 1 point above the average. Burley stripping was 5 points below normal in Tennessee at 20% finished.

FRUIT AND NUTS: Florida's citrus trees were in good condition. Dryness caused considerable irrigation in most areas. Fruit droppage and new growth were minimal. Harvest continued increasing on all types of early fruit. Early variety oranges were harvested in Texas. Grapefruit harvest is expected to begin by the end of October. Pecan harvest expanded statewide. The lower temperature increased nut droppage. Lemons, grapefruit, and navel oranges were packed in Arizona. Granny Smith apples and pecans were harvested. Table grape harvest continued in California. Wine grape harvest was essentially complete. Navel orange harvest began. Fairchild tangerines, lemons, and a few valencia oranges were packed.

VEGETABLES: Fall vegetables were mostly good in Florida. Harvest consisted mostly of eggplant, green peppers, cucumbers, squash, tomatoes, sweet corn, and radishes. Winter vegetable planting was underway in the Rio Grande Valley. Wet fields delayed planting in the San Antonio-Winter Garden area. In Arizona, vegetable planting advanced. Lettuce was thinned and sidedressed. Cantaloupes, cauliflower, celery, lettuce, broccoli, and tomatoes were harvested in California.

PASTURES AND LIVESTOCK: Livestock was mostly good. Movement from summer pastures was near completion in the northern areas. Pastures were good in the Corn Belt and northern Plains and fair in the southern half of the Nation. Cold weather halted growth in some areas.

CROP PROGRESS

FOR WEEK ENDING OCTOBER 19, 1986

COTTON
% BOLLS OPENING

	1986	1985	AVG.
ALA	99	99	95
ARIZ	99	100	100
ARK	98	99	98
CALIF	100	100	97
GA	89	95	89
LA	100	100	99
MISS	100	100	100
MO	97	95	100
N MEX	100	90	97
N C	100	100	100
OKLA	50	95	85
S C	100	100	100
TENN	100	100	98
TEX	44	68	72
14 STATES	72	84	85

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

RICE
% HARVESTED

	1986	1985	AVG.
ARK	98	93	88
CALIF	75	55	55
LA	100	97	98
MISS	100	100	90
TEX	100	100	100
5 STATES	95	89	86

THESE 5 STATES PRODUCED 97% OF THE 1985 RICE CROP.

CORN
% HARVESTED

	1986	1985	AVG.
COLO	12	22	30
GA	98	96	95
ILL	55	49	52
IND	45	35	40
IOWA	25	23	38
KANS	65	60	65
KY	76	65	58
MICH	8	10	15
MINN	12	10	23
MO	55	50	61
NEBR	35	15	30
N C	87	86	87
OHIO	30	35	29
PA	24	26	24
S DAK	13	7	39
TEX	93	93	94
WIS	11	11	14
17 STATES	37	32	40

THESE 17 STATES PRODUCED 93% OF THE 1985 CORN CROP.

GRAIN SORGHUM
% HARVESTED

	1986	1985	AVG.
ARK	98	95	93
ILL	55	45	49
KANS	30	20	35
LA	100	100	98
MISS	100	98	91
MO	51	48	56
NEBR	35	20	30
OKLA	20	30	30
S DAK	31	14	45
TENN	88	88	NA
TEX	65	72	77
11 STATES	53	49	NA
EXCL. STATES WITH NA	52	48	56

THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

SOYBEANS
% DROPPING LEAVES

	1986	1985	AVG.
ALA	79	77	78
ARK	63	71	69
GA	87	88	78
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	95	90	90
KY	86	85	83
LA	73	77	79
MICH	100	100	100
MINN	99	99	99
MISS	90	88	93
MO	94	93	91
NEBR	100	100	100
N C	44	47	46
OHIO	100	100	100
S C	58	62	64
S DAK	97	91	100
TENN	85	93	91
19 STATES	91	92	92

THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.

COTTON
% HARVESTED

	1986	1985	AVG.
ALA	62	58	54
ARIZ	30	20	25
ARK	72	72	52
CALIF	12	10	11
GA	29	46	34
LA	85	80	53
MISS	94	73	56
MO	82	59	55
N MEX	20	16	26
N C	34	42	43
OKLA	1	15	5
S C	40	73	60
TENN	75	50	55
TEX	19	20	22
14 STATES	37	34	30

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

GRAIN SORGHUM
% MATURE

	1986	1985	AVG.
ARK	99	NA	NA
ILL	100	NA	NA
KANS	90	85	80
LA	100	100	100
MISS	100	NA	NA
MO	96	94	90
NEBR	100	100	96
OKLA	75	95	90
S DAK	93	79	92
TENN	98	98	NA
TEX	84	94	94
11 STATES	91	NA	NA
EXCL. STATES WITH NA	90	91	89

THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

SOYBEANS
% HARVESTED

	1986	1985	AVG.
ALA	26	22	27
ARK	24	26	17
GA	10	19	10
ILL	59	69	76
IND	50	65	70
IOWA	45	28	58
KANS	25	20	45
KY	23	20	20
LA	27	38	35
MICH	5	20	35
MINN	49	14	42
MISS	30	31	25
MO	20	19	36
NEBR	45	20	45
N C	8	5	9
OHIO	46	66	60
S C	6	6	6
S DAK	39	14	61
TENN	17	20	15
19 STATES	37	35	46

THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.

WINTER WHEAT
% PLANTED

	1986	1985	AVG.
ARK	20	29	23
CALIF	10	10	9
COLO	98	99	97
GA	17	14	11
IDAHO	91	92	89
ILL	35	68	64
IND	45	70	70
KANS	85	70	85
MICH	20	75	80
MO	25	35	47
MONT	65	80	88
NEBR	99	94	100
N MEX	94	NA	NA
N C	15	15	23
OHIO	30	76	74
OKLA	65	75	70
OREG	78	54	72
S DAK	96	100	100
TEX	73	58	66
WASH	94	94	90
20 STATES	72	NA	NA
EXCL. STATES WITH NA	72	71	76

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

WINTER WHEAT
% EMERGED

	1986	1985	AVG.
ARK	12	14	NA
CALIF	1	0	1
COLO	84	87	86
GA	12	6	NA
IDAHO	59	58	60
ILL	18	37	38
IND	30	45	45
KANS	75	50	60
MICH	10	45	NA
MO	20	21	25
MONT	35	52	66
NEBR	98	80	91
N MEX	89	NA	NA
N C	6	NA	NA
OHIO	18	46	42
OKLA	45	45	40
OREG	48	28	39
S DAK	87	87	93
TEX	62	41	41
WASH	74	62	70
20 STATES	59	NA	NA
EXCL. STATES WITH NA	62	52	56

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

WEEKLY CROP WEATHER CONDITION

CROP CONDITION PERCENT
FOR WEEK ENDING OCTOBER 19, 1986

WINTER WHEAT

STATE	VP	P	F	G	EX
ARK	0	10	13	71	6
COLO	3	3	24	58	12
GA	0	10	62	28	0
KANS	2	1	6	37	54
MICH	35	20	35	10	0
MONT	0	8	20	68	4
NEBR	0	0	11	78	11
N MEX	0	0	16	84	0
OKLA	0	1	65	29	5
S DAK	0	3	15	59	23
TEX	0	0	14	62	24
WASH	0	5	10	85	0

VP - VERY POOR P - POOR F - FAIR

G - GOOD EX - EXCELLENT

For Information Call: (202) 447-7310

State Summaries of Weather and Agriculture

ALABAMA: Temperatures averaged around 5° below normal. Rainfall totals generally 1.00 in. range; 2.00 to 3.00 in. east central.

Days suitable for fieldwork 4.1. Soil moisture 33% short, 62% adequate, 5% surplus. Row crop harvest continued to make good progress. Peanuts dug 58%, 97% 1985, 96% avg.; combined 38% 92% 1985, 92% avg.; 7% poor, 79% fair, 14% good. Primary activities: Harvesting corn, sorghum, cotton, soybeans, peanuts, hay, pecans; planting small grains, annual forage crops; defoliating cotton; general maintenance; routine care of livestock, poultry.

ARIZONA: High pressure system dominated through 14th; sunny with light winds, warmer temperatures. Dense middle, high cloudiness from sub-tropics 15th through 16th, scattered showers White Mountains. Sunny skies 17th through 18th. Temperatures on 18th, 4 to 10° lower western two-thirds compared with 17th. Rainfall amounts ranged from less than 0.10 to 0.50 in., many localities reporting none. Average temperatures 1 to 7° below normal.

Cotton picking advanced. Weather improved from previous week but rain stopped harvest southeast. Defoliation moderate to active west, central; light southeast. Pink bollworm infestations higher than normal central. Alfalfa planting, stand renovation moved ahead. New stands good. Harvest progress light to moderate, rain damage southeast. Weed, insect problems light to moderate. Corn, sorghum harvest advanced. Rain, hail damage to sorghum southeast; harvest slowed. Sesame, peanuts harvested. Vegetable planting advanced. Established stands good. Lettuce thinned, side-dressed. Vegetable, melon harvests active statewide. Lemon, grapefruit, Navel oranges packed. Citrus groves good. Granny Smith apples packed. Pecans harvested.

ARKANSAS: Extremely cool week with freezing temperatures during first of week north central section of State. Lingering showers first of week most sections otherwise dry week. Temperature extremes 30°; 81°. Rainfall none to 2.24 in.

Days suitable for fieldwork 6.0. Soil moisture 22% short, 72% adequate, 6% surplus. Crop growth moderate. Major activities:- Forage seeding, fertilizing, liming, seeding pastures; herd health practices, marketing spring calves; machinery repair; 2nd picking cotton underway while harvest of soybeans, sorghum, hay continued; fall land preparation; incorporating rice stubble, cotton stalks. Cotton gins operating full-time. Blast evident many late rice fields. Extensive flood damage to crops in counties along Arkansas River.

CALIFORNIA: High pressure over State, above normal temperatures, no rainfall. Late week low pressure trough developed over region brought light rain, below normal temperatures.

Generally good weather. Cotton, rice harvests advanced well. Corn, sorghum, dry bean, alfalfa, sugarbeet harvests continued. Ground preparations for sugarbeet, small grain planting. Wheat, small grain planting underway. Harvest progressed remaining deciduous crops. Table grape varieties harvested include Ribier, Ruby Seedless, Emperor. Raisin, wine grape harvests essentially complete. Persimmons, pomegranate, quince harvested. Pistachio, walnut harvests winding down. Quality of late variety walnuts much better than early varieties. Navel orange harvest began, crop

volume expected up significantly over last season. Few Valencia oranges continued to be packed. Desert lemon, Fairchild tangerines also packed. Artichoke supplies moderate. Broccoli supplies heavy Salinas, fairly light Santa Maria. Light harvest San Joaquin Valley. Cantaloup harvest increased desert, decreased San Joaquin Valley. Cauliflower harvest fairly heavy Salinas, moderate Santa Maria. Celery heavy supply central coast. Lettuce supplies decreasing central coast, increasing San Joaquin Valley. Fall potato digging about 80% complete Tulelake-Butte Valley. Light harvest winter potatoes west Riverside. Pumpkin harvest full swing. Market tomato harvest continued San Joaquin Valley, south coast. Processing tomato harvest very light. Pastures greening up, more moisture needed continued growth. Movement cattle market, winter grazing areas declining some areas. Sheep continued moved alfalfa, harvested melon fields San Joaquin Valley. Calving heavy most districts, lambing increasing.

COLORADO: Temperatures averaged 4 to 20° below normal. Precipitation totals averaged none to 1.32 in.

Days suitable for fieldwork 4.6. Soil moisture 2% very short, 26% short, 60% adequate, 12% surplus. Dry beans threshed 81%, 92% 1985, 91% avg. Sorghum mature 87%, 82% 1985, 91% avg.; harvested for grain 7%, 12% 1985, 33% avg. Livestock good; range, pasture fair to good.

FLORIDA: Abnormally warm weather early week ended with cold front about midweek. Temperatures by end of period well below normal Panhandle and north Peninsula, to near normal south. Scattered showers, thunderstorms brought mostly 0.50 to 1.00 in. of rain to most areas, but 2.00 to 3.00 in. along lower east coast over weekend.

Soil moisture adequate statewide except short north central areas. Peanut, cotton harvest active, yields below normal. Soybean harvest increased, progress good. Heavy army worm infestations in hay fields. Sugarcane good to excellent. Planting small grains active. Citrus trees good condition, considerable irrigation dry most areas. Very little new growth, very little fruit droppage, good color break on early fruit, harvest increased all types early fruit. Caretakers active all areas. Central southern Peninsula pastures mostly good; elsewhere, mostly poor to fair. Cool weather slowing grass growth. Severe army worm infestations of pasture, hay noted. Cattle mostly good central, south; elsewhere, mostly fair. Weather unseasonally hot first of week turning to cool by week's end over vegetable producing areas. Fall crops mostly good condition, all areas. Supplies available include Pompano eggplant, green peppers, cucumbers; west central cucumbers, squash, tomatoes, watermelons; central sweet corn, radishes. Everglades sweet corn, radishes; Quincy tomatoes.

GEORGIA: Rainfall in 1.00 in. range over northern two-thirds, under 0.50 in. over southern third. Two inches total west central 2.00 to 4.00 in. near Athens. Temperatures 5° below normal. Extremes from 90° on 13th, 14th to 29° on morning of 17th.

Days suitable for fieldwork 4.2. Soil moisture 5% very short, 29% short, 61% adequate, 5% surplus. Corn 12% very poor, 46% poor, 35% fair, 7% good. Cotton 10% very poor, 27% poor, 54% fair, 9% good. Sorghum grain 4% very poor, 27% poor, 57% fair, 12% good; 64% harvested. Peanuts 4% very poor, 20% poor, 58% fair, 18% good; 64% dug, 99% 1985, 94% avg.; 50% threshed, 96% 1985, 87% avg. Soybeans 8% very poor, 29% poor, 58% fair, 5% good. Rye 1% very poor, 9% poor, 59% fair, 30% good, 1% excellent; 35% planted, 41% 1985, 32% avg. Other small grains 3% planted, 32% 1985, 25% avg. Apples 5% very poor, 33% poor, 38% fair, 24% good; 85% harvested, 94% 1985, 93% avg. Pecans 2% very poor, 13% poor, 58% fair, 27% good; 4% harvested, 7% 1985, 4% avg. Pasture 1% very poor, 14% poor, 60% fair, 25% good. Hay 1% very poor, 16% poor, 63% fair, 20% good. Cattle 1% very poor, 3% poor, 51% fair, 44% good, 1% excellent. Hogs 2% poor, 35% fair, 61% good, 2% excellent. Main activities: Harvesting peanuts, cotton, soybeans, sorghum grain, pecans, vegetables; haying; planting small grains; reseeding pastures.

HAWAII: Conditions partly cloudy with light rainfall. Winds northeasterly, 10 to 20 mph. Temperatures ranged mid 60s to lower 90s. Rainfall ranged none to 2.10 in.

Days suitable for fieldwork 7.0. Weather mostly favorable for crop development. Occasional gusty winds one island caused minor damage fruit crops, exposed fields. Banana harvesting active. Papaya output up. Leafy vegetables fair; high temperature slowed progress some areas.

IDAHO: Near normal temperatures prevailed, lows 20° to 30°, highs 60° to 70°. Few showers noted, most areas dry.

Days suitable for fieldwork 7.0. Potato harvest winding up portions of State, sugarbeet, dry bean harvest active. Third cutting alfalfa continued. Seeding winter wheat active, fall land preparation continued. Livestock good, most off summer grazing.

ILLINOIS: Temperatures averaged 8 to 10° below normal. Precipitation none to 0.64 in. heaviest southeast.

Days suitable for fieldwork 4.5. Soil moisture 40% adequate, 60% surplus. Pasture 14% fair, 60% good, 26% excellent. Major farm activities: Harvesting corn, soybeans, sorghum.

INDIANA: Average temperatures 7 to 10° below normal. Lows in 30s, highs in 60s. Total rainfall generally less than 0.50 in. with many locations only 0.10 to 0.20 in.

Fieldwork averaged 4.1 days. Topsoil moisture 70% adequate, 30% surplus. Subsoil moisture 3% short, 74% adequate, 23% surplus. Corn 20% moisture content, soybeans 15% moisture content. Rye 60% seeded, 75% 1985, 80% avg. Winter wheat cropland 68% plowed, 78% 1985, 83% avg. Harvesting, planting activities accelerated as field working conditions improved. Pastures fair to mostly good.

IOWA: Dry week. Precipitation only eastern half on 13th. Temperature extremes 23°; 76°.

Days suitable for fieldwork 3.8. Topsoil moisture 47% adequate, 53% surplus; subsoil moisture 45% adequate, 55% surplus. Corn lodging 4% none, 68% light, 27% moderate, 1% heavy; ear droppage 4% none, 62% light, 33% moderate, 1% heavy. Corn harvest progressed ahead of last year. Soybeans lodging 7% none, 65% light, 27% moderate, 1% heavy; shattering 18% none, 62% light, 18% moderate, 2% heavy. Soybean harvest excellent progress, moved ahead of last year. Winter wheat seeded 65%, 68% 1985, 81% avg. Fall tillage 4%, 6% 1985, 12% avg.; fall fertilizer application 3%, 5% 1985, 11% avg. Livestock mostly good; moving out to corn stocks, bean stubble.

KANSAS: Precipitation averaged less than 0.10 in. southwest and west central, 0.25 to 0.50 in. central and northwest, 0.70 to 1.10 in. east.

Temperatures averaged 56° southwest, 53 to 55° elsewhere; 1° above normal northwest, 6° below normal southeast, 1 to 4° below normal elsewhere.

Days suitable for fieldwork 3.5. Soil moisture 15% short, 44% adequate, 41% surplus. Weather cleared; wheat seeding, fall row crop harvest resumed end of week, progress slow. Freezing temperatures early week aid drying crops, reduce sprouting. Sorghum harvest resumed end of week, progress slow east, fair west. Sorghum 5% very poor, 5% poor, 7% fair, 43% good, 40% excellent. Corn harvest fair progress west, southwest, south central, northeast; little progress elsewhere. Corn 12% fair, 25% good, 63% excellent. Soybean harvest fair progress west, slow east. Recent frost help plants dry, prevent further damage from sprouting. Soybean 11% poor, 14% fair, 36% good, 39% excellent. Wheat seeding underway where moisture conditions permit. Many fields washed out, need reseeding. Emergence ahead schedule, leaf rust showing in early stands. Range, pasture holding well, showing improvement west.

KENTUCKY: Week began wet, mild, then cooler. Rainfall amounts varied. First frost of season recorded midweek. Some lows below freezing. Temperatures averaged 5 to 10° below normal, lows in 30s to around 40s, highs generally in 60s.

Days suitable for fieldwork 4.4. Soil moisture 1% very short, 30% short, 64% adequate, 5% surplus. Corn harvest equals record pace of 1980. Soybean harvest slowed somewhat. Tobacco curing well. Burley stripping 10% complete, 12% 1985, 9% avg. Quality variable, mostly good. Wheat seeding 50% complete, 45% 1985, 38% avg. Sorghum grain harvest slow. Remains slightly over half complete. Pastures improving.

LOUISIANA: Temperature 3 to 7° below normal. Temperature extremes 38°; 86°. Rainfall averaged 0.80 to 2.90 in.

Days suitable for fieldwork 4.0. Soil moisture 6% short, 76% adequate, 18% surplus. Soybeans 92% leaves turning color, 94% 1985, 94% avg. Sugarcane fair to good; 99% planted, 91% 1985, 95% avg. Sugarcane 7% harvested, 6% 1985, 8% avg. Sweetpotatoes 89% harvested, 79% 1985, 84% avg. Pecans 4% harvested, 3% 1985, 5% avg. Wheat 10% planted, 8% 1985, 14% avg.; 5% emerged, 4% 1985, 7% avg. Hay final cutting 96% complete, 95% 1985, 95% avg. Vegetables fair; strawberries being sprayed for mites, leaf disease. Pasture, livestock fair to good. Main activities: Baling hay; harvesting cotton, pecans, soybeans, sugarcane, sweetpotatoes; planting wheat, winter pastures.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 1° below normal over State; lowest temperature 29° Oakland; highest temperature 77° Patuxent, Upper Marlboro, Cambridge. Precipitation averaged 1.08 in., ranging from 0.39 in. Hagerstown to 2.39 in. Royal Oak.

Days suitable for fieldwork 5.0. Topsoil moisture short to adequate. Subsoil moisture mostly short. Field corn mostly fair; 69% harvested for grain, 75% 1985, 72% avg.; 96% harvested for silage. Soybeans fair; 20% harvested, 19% 1985, 25% avg. Tobacco 6% stripped. Small grains fair to good. Small grain plantings: Wheat 37%, 66% 1985, 54% avg.; barley 67%, 85% 1985, 81% avg.; rye 71%, 75% 1985, 74% avg.; oats 66%, 70% 1985, 60% avg. Apples good; 79% harvested, 94% 1985, 89% avg. Alfalfa 4th cutting 86% harvested, 100% 1985, 94% avg. Pasture fair. Hay supplies mostly short.

Delaware: Temperatures averaged 1° below normal over State; lowest temperature 37° Middletown, Dover; highest temperature 86° Georgetown. Precipitation averaged 1.60 in. ranging from 1.10 in. Wilmington to 2.16 in. Milford.

Days suitable for fieldwork 5.3. Topsoil moisture mostly short. Subsoil moisture mostly very short. Field corn fair; 71% harvested, 89% 1985, 83% avg. Soybeans fair; 19% harvested, 15% 1985, 22% avg. Small grains fair. Small grains planted: Wheat 22%, 20% 1985, 27% avg.; barley 50%, 60% 1985, 72% avg. Apples good; 90% harvested. Pasture fair to good. Hay supplies short to adequate.

MICHIGAN: Temperatures ranged 3 to 7° below normal. Temperature extremes 21°; 70°. Precipitation ranged from 0.20 to 1.80 in. across State.

Days suitable for fieldwork 2.0. Soil moisture 5% adequate, 95% surplus. Corn 90% mature, 100% 1985, 99% avg.; 8% harvested, 10% 1985, 15% avg. Soybeans 100% shedding, 100% 1985, 100% avg.; 5% harvested, 20% 1985, 35% avg. Winter wheat 20% planted, 75% 1985, 80% avg.; 10% emerged, 45% 1985; 35% very poor, 20% poor, 35% fair, 10% good. Dry beans 20% harvested, 95% 1985, 90% avg. Major activities: Silo filling, wheat planting, potato digging, apple picking. Sugarbeet harvest began. Grape harvest done. Sprouting, mold widespread in corn.

MINNESOTA: Temperatures averaged near normal to 7° below normal for State. Temperature extremes 15°; 73°. Precipitation averaged 0.25 to 0.41 in. below normal for State. Greatest weekly total 0.23 in.

Days suitable for fieldwork 4.6. Topsoil moisture 4% short, 49% adequate, 47% surplus. Sunny weather over most of State helped farmers make great strides in harvesting. Corn silage, sugarbeets, potatoes, dry bean harvests nearing completion. Moisture content of grain still higher that farmers like for storage. Other normal fall activities seem to be about on schedule. Wet conditions in southeast continued to show some problems with corn, soybeans. Field corn 96% mature, 92% 1985, 96% avg.; 12% picked, 10% 1985, 23% avg.; 27% moisture content of grain, 29% 1985, 27% avg. Field corn 82% cut for silage, 80% 1985, 88% avg. Soybeans 99% mature, 94% 1985, 98% avg.; 49% combined, 14% 1985, 42% avg.; 14% moisture of beans, 16% 1985, 15% avg. Dry edible beans 90% harvested, 67% 1985, 75% avg. Potatoes 93% harvested, 90% 1985, 90% avg. Flax 80% harvested, 58% 1985, 81% avg. Sugarbeets 94% harvested, 77% 1985, 55% avg. Sunflowers 23% harvested, 8% 1985, 29% avg. Small grain, hay 67% stubble plowed, 63% 1985, 75% avg.

MISSISSIPPI: Temperatures 5 to 10° below normal, extremes 30°; 84°. Strong cold front pushed through early week producing widespread rain, cold temperatures for most of week. Rainfall ranged from 0.50 to 1.00 in. north, 1.00 to 2.00 in. elsewhere. Greatest 24-hour total 2.85 in.

Days suitable for fieldwork 3.7, 3.0 1985, 3.9 avg. Soil moisture 5% very short, 38% short, 49% adequate, 8% surplus. Corn 100% harvested, 95% 1985, 87% avg. Hay 96% harvested, 96% 1985, 97% avg. Sweetpotatoes 91% harvested, 76% 1985, 70% avg. Peanuts 96% harvested, 94% 1985, 84% avg. Wheat 22% planted, 22% 1985, 22% avg. Pecans 13% harvested.

MISSOURI: Temperatures averaged 9° below normal. Many first frosts of season. Precipitation less than 0.25 in. except southeast up to 2.50 in. Rivers back in their banks, but Missouri, Mississippi still above flood stage.

Days suitable for fieldwork 3.0. Soil moisture 4% short, 34% adequate, 62% surplus. Harvest progress, low fields still muddy. Sprouting in sorghum common, causing major reduction of quality. Fall tillage complete 11%, 20% 1985, 25% avg.

Pastures 4% poor, 21% fair, 62% good, 13% excellent.

MONTANA: Few light showers along western and southern borders, but no precipitation reporting stations. Temperatures ranged from normal east to 4° above normal central division. Overall, temperatures averaged 2° above normal.

Days suitable for fieldwork 5.8. Topsoil moisture 80% adequate, 20% surplus. Subsoil moisture 82% adequate, 18% surplus. Spring wheat harvested 98%, 100% 1985, 100% avg. Barley harvested 95%, 100% 1985, 100% avg. Corn silage harvested 90%, 95% 1985, 95% avg. Sugarbeets harvested 50%, 50% 1985, 50% avg. Potatoes harvested 80%, 65% 1985, 75% avg. Dry beans harvested 90%, 85% 1985, 95% avg. Alfalfa hay 2nd cutting 95%, 95% 1985, 100% avg. Cattle moved from summer ranges 65%, 80% 1985, 75% avg. Sheep moved from summer ranges 75%, 80% 1985, 80% avg.

NEBRASKA: Dry week little or no rainfall. Temperatures ranged 1 to 4° below normal. Temperature extremes 12°; 78°.

Days suitable for fieldwork 3.9. Topsoil moisture 66% adequate, 34% surplus. Subsoil moisture 5% short, 63% adequate, 32% surplus. Winter wheat mostly good. Spotted areas remain to be seeded. Row crop producers concentrating on harvesting sorghum, soybeans; allowing corn to dry down. Harvesting sugarbeets, dry beans. Pasture, range feed supplies mostly adequate. Cattle producers busy moving cattle to winter pastures, stalks as harvest progresses.

NEVADA: Week began dry, remained dry as temperatures warmed under rising pressure aloft through 16th. Cooler temperatures prevailed remainder of period with mainly light scattered precipitation across north. Amounts mostly trace except northeast, east. Despite warming trend early in period, temperatures for entire week averaged 4 to 5° below normal. Extremes 9°; 90°.

Agricultural areas received little or no rain. Potato harvest in windup stage. Livestock mostly good, sales picking up.

NEW ENGLAND: Temperatures averaged 48°, near normal. Precipitation near normal northern Vermont, New Hampshire, above normal Cape Cod, below normal elsewhere.

Days suitable for fieldwork 6.0. Soil moisture adequate. Grazing availability adequate. Field corn 80% chopped, 85% 1985, 90% avg. Third crop hay 95% cut, 90% 1985, 95% avg. Cranberries 65% picked. Apple harvest winding down. Major farm activities: Chopping corn, cutting hay, harvesting apples, cranberries, potatoes, oats.

NEW JERSEY: Temperatures averaged below normal. Extremes 24°; 76°. Rainfall averaged 0.56 in. north, 1.02 in. central, 1.66 in. south. Heaviest 24-hour total 1.83 in. on 13th, 14th. Estimated soil moisture percent field capacity averaged 84% north, 86% central, 95% south. Four inch soil temperatures averaged 50° north, 53° central, 55° south.

Frost on several mornings. Hardy fall vegetables continued to be marketed. Irish potato digging in clean up stage. Sweetpotato harvest neared completion. Apple picking well advanced. Cranberry harvest active. Soybean, corn for grain combining active. Conditions good for grain, cover crop growth. Seeding continued. Pasture growth continued normal for season.

NEW MEXICO: Weekly average temperatures about 4 below normal most areas. Precipitation sparse with less than 0.25 in. over west, southeast. Near 0.50 in. over northeast.

Days suitable for fieldwork 4.6. Soil moisture 76% adequate, 24% surplus. Freeze damage 23% none, 31% light, 31% moderate, 15% severe. Alfalfa 8% poor, 38% fair, 54% good. Cotton 57% fair, 43% good. Corn 20% fair, 80% good. Barley 14% fair, 86% good. Irrigated grain sorghum 22% fair, 78% good. Dryland grain sorghum 25% fair, 75% good. Pecans 20% fair, 80% good. Apples 20% fair, 60% good, 20% excellent. Chile 86% good, 14% excellent. Lettuce 100% good. Cattle 81% good, 19% excellent. Sheep 93% good, 7% excellent. Range 25% fair, 56% good, 19% excellent.

NEW YORK: Early part of week wet, rather mild then turning cool, drier. Rain arrived across Niagara Frontier night of 12th and fell mostly north and west of Hudson Valley on 13th. Second surge of rain moved across area night of 13th, morning of 14th. Rainfall after that light, spotty. Temperatures averaged below normal for week.

Days suitable for fieldwork 4.5. Corn fair to good. Corn silage 53% harvested, 70% 1985, 75% avg. Grain corn 9% harvested, 12% 1985, 18% avg. Third cutting alfalfa 78% complete, 86% 1985, 90% avg. Pastures fair to good. Soil moisture surplus to excessive. Dry bean, potato harvest stalled. Harvest of late season apple varieties in full swing.

NORTH CAROLINA: Temperatures averaged 2 to 4° below normal, Mountain Region; near normal, remainder of State. Temperature extremes 23°; 86°. Precipitation ranged from 0.12 to 2.94 in.

Days suitable for fieldwork 5.3. Soil moisture 14% very short, 58% short, 28% adequate. Corn grain harvest average. Cotton mostly fair to good, harvest behind average. Soybeans mostly fair, leaves dropping, harvest average. Small grain planting behind average, dry conditions. Sorghum 4% very poor, 27% poor, 57% fair, 10% good, 2% excellent; harvested 50%, 64% 1985, 66% avg. Peanuts 42% fair, 58% good; dug 87%, 88% 1985, 75% avg.; threshed 69%, 68% 1985, 60% avg. Sweetpotatoes 3% very poor, 7% poor, 68% fair, 18% good, 4% excellent; harvested 63%, 69% 1985, 69% avg. Apples harvested 85%, 84% 1985, 84% avg. Pasture 5% very poor, 34% poor, 43% fair, 18% good. Major farm activities: Harvesting corn, tobacco, cotton, sorghum, apples, hay, soybeans; marketing tobacco; digging sweetpotatoes, strawberry plants; digging, threshing peanuts; land preparation; sowing cover crops; tending livestock; shearing, planting Christmas trees; mowing; general farm maintenance.

NORTH DAKOTA: High pressure, almost no precipitation. Temperatures averaged 1° above normal, northwest to 4° below normal, north central. Extremes low 13° west central, 12th; high 75° southwest, 17th. Most precipitation reported 0.08 in., central.

Days suitable for fieldwork 6.7. Topsoil moisture levels remain above normal 100% adequate. Sunny weather promoted good harvest progress. Hard red spring wheat, durum wheat, potato, sugarbeet harvest nearly complete. Dry bean, soybean, flax, sunflower, corn harvest made excellent progress, but flax, sunflower, corn still remain behind normal. Harvest completed: Hard red spring wheat 97%, 97% 1985, 99% avg.; durum wheat 96%, 91% 1985, 98% avg.; potatoes 99%, 94% 1985, 92% avg.; sugarbeets 98%, 92% 1985, 64% avg.; dry bean 89%, 67% 1985, 85% avg.; flax 79%, 68% 1985, 88% avg.; sunflower 22%, 7% 1985, 29% avg.; corn 21%, 18% 1985, 40% avg.; soybean 73%, 51% 1985, 63% avg. Other activities: Fall tillage, fertilizer application.

OHIO: Average temperatures 4 to 7° subnormal. Lows mid-30s. Highs 50s to 60s. Precipitation

ranged 0.10 to 0.80 in.; mostly 0.25 to 0.50 in. Soil temperatures low to mid-50s.

Days suitable for fieldwork 4.5. Soil moisture 60% adequate, 40% surplus. Activities included harvesting corn, soybeans, planting wheat. Wet soils continued to delay fieldwork but harvest conditions improving rapidly. Moisture content corn 22%, soybeans 15%. Pastures good.

OKLAHOMA: Temperatures averaged 7° below normal northeast to 10° below normal central, east central. Precipitation averaged none Panhandle to 0.19 in. northeast.

Days suitable for fieldwork 2.7. Topsoil moisture 5% short, 50% adequate, 45% surplus. Subsoil moisture 5% short, 95% adequate. Wheat 1% poor, 65% fair, 29% good, 5% excellent; 65% planted, 75% 1985, 70% avg.; 45% emerged, 45% 1985, 40% avg. Heavy rains earlier in month caused silting, nitrogen shortage, soil erosion, disease problems. Sorghum 75% mature, 95% 1985, 90% avg.; 20% harvested, 30% 1985, 30% avg. Cotton 50% open bolls, 95% 1985, 85% avg.; 1% harvested, 15% 1985, 5% avg. Cool temperatures, light frost hurt cotton development. Pastures good; forage supplies mostly surplus southwest, south central. Cattle good; marketings average, prices up slightly from preceding week.

OREGON: Temperatures averaged 1 to 5° below normal coast, around normal western interior, 1 to 4° below normal east of Cascades, except along Columbia River normal. Measurable rainfall all stations west of Cascades. Daily precipitation, fog along coast. East of Cascades dry except Redmond.

Soil moisture 12% short, 88% adequate. Fall grain seeding continued, completion 1 to 2 weeks away. Seeded grass seed west; applied fertilizer, herbicide to some earlier fields. Some late hay baled central, south central areas. Field corn harvest in full swing Hermiston-Boardman region. Sugarbeets about 35% harvested Malheur County. Final irrigation on all crops central region. Pear, apple harvest complete Hood River, Rogue River Valleys; orchard cleanup, fall spraying underway. Grant County apple crop good quantity, quality. Red raspberry training, spraying continued Willamette Valley. Harvested late wine grape varieties. Filbert, walnut harvests continued. Eastern filbert blight quarantine zone covers 300 acres, no damage to 1986 crop. Cranberries 50% harvested, yields good. Potato harvest winding down Hermiston, 75% completed Malheur County, continued west, central areas. Onion harvest essentially completed all areas; warm, dry weather was tremendous aid. Cauliflower, sweet corn, cole crops harvested west. Livestock mostly good to excellent. Ranges, pastures mainly fair to good. Very good grass, clover growth west, low elevations east. Continued to gather cattle off public grazing allotments east. Weaning calves; average to above average weaning weights. Some calves going to market.

PENNSYLVANIA: Cold front provided bulk of rainfall early week. Canadian high pressure brought slightly below normal temperatures. Average temperature 49°, 3° below normal. Temperature extremes 22°; 74°. Average precipitation 0.75 in., 0.09 in. above normal.

Days suitable for fieldwork 4.0. Soil moisture 7% short, 78% adequate, 15% surplus. Corn 93% mature, 24% harvested; 1985 87% mature, 26% harvested; avg. 87% mature, 24% harvested. Corn 1% very poor, 5% poor, 20% fair, 48% good, 26% excellent. Ensilage corn harvested 89%; 92% 1985; 89% avg. Soybean harvest 23% complete, 21% 1985, 24% avg. Soybeans 1% very poor, 7% poor, 16% fair, 49% good, 27% excellent. Potato harvest 91% complete, 96% 1985, 93% avg. Apple harvest 82% complete, 83% 1985. Grape harvest 92% complete, 94% 1985. Fall plowing 91% complete, 93% 1985. Fall barley planting 94% complete, 94% 1985. Fall wheat planting 81% complete, 80% 1985. Fourth cutting alfalfa 82% complete, 78% 1985. Quality of hay made fair to good. Amount of feed being obtained from pastures average to below average. Activities: Making hay, haylage; harvesting soybeans, corn grain, apples, grapes, corn silage, potatoes, other vegetables; fall plowing; fall planting wheat, barley, alfalfa.

PUERTO RICO: NO DATA AVAILABLE.

SOUTH CAROLINA: Temperatures averaged 3 to 5° below normal for week. Heavy showers upstate early week, little rainfall across Midlands, Coast.

Days available for fieldwork 4.7. Soil moisture 12% very short, 51% short, 37% adequate. Cotton open bolls 100%, 100% 1985, 100% avg.; 40% harvested, 73% 1985, 60% avg.; 3% very poor, 77% poor, 20% fair. Soybean leaves turning 84%, 88% 1985, 87% avg.; 58% leaves shedding, 62% 1985, 64% avg.; 43% mature, 32% 1985, 27% avg.; 6% harvested, 6% 1985, 6% avg.; 7% very poor, 49% poor, 44% fair. Tobacco harvested 100%; 83% stalks destroyed, 88% 1985, 89% avg. Peanuts fair to good; 39% harvested, 69% 1985, 79% avg. Sweetpotatoes fair; 53% harvested, 67% 1985, 63% avg. Apples poor to fair; 83% harvested, 95% 1985, 93% avg. Barley, oats, sorghum, rye, pastures, winter grazing fair. Wheat, livestock fair to good. More rain needed for small grains.

SOUTH DAKOTA: Average temperatures near normal northwest, north central; 3 to 6° below normal northeast, south. Extremes 12°; 77°. Black Hills low -3°. No significant precipitation.

Days suitable for fieldwork 5.0. Topsoil moisture surplus east central, adequate elsewhere; 1% short, 79% adequate, 20% surplus. Crops good to excellent. Winter wheat, rye seeding nearing completion. Hard freeze early week, mild temperatures later helped hurry crop dry-down and allowed harvest to progress. Grain harvest 1 to 2 weeks behind normal. Range, pastures, livestock good to excellent.

TENNESSEE: Average temperatures 5 to 7° below normal. Rainfall generally less than 1.00 in.

Days suitable for fieldwork 4.5. Soil moisture 6% very short, 40% short, 53% adequate, 1% surplus. Corn 75% harvested, 75% 1985, 60% avg. Burley tobacco 20% stripped, 25% 1985, 25% avg. Wheat 30% seeded, 30% 1985, 35% avg. Cattle fair to good. Pastures mostly fair to good. Wheat seedings delayed due to lack of moisture. Harvest progress good.

TEXAS: High pressure ridge brought cool, clear nights, mild sunny days. Weak disturbance isolated showers. Drier weather below normal precipitation most areas. Temperatures also down because influx cooler air.

Crops: Corn harvest resumed conditions allowed High Plains. Some lodging remaining fields following freezing temperatures, losses not significant, combines began to roll as soon as possible. Mature 100%, 100% 1985. Freezing temperatures hurt yield prospects some immature grain sorghum fields High Plains. Some fields planted late, need extra time to mature. Harvest delayed wet fields, resuming weekend. Sucker heads, lodging problems. Turning color 99%, 100% 1985, 100% avg. Producers appraising damage cotton after hard freeze west 12th, 13th. Early planted cotton escaped major harm; late planted cotton not fare as well. Some plant kill occurred, northern areas. Late cotton needed more time to develop, reach full yield potential. Harvest slowed all

areas wet conditions, producers some progress week's end. Low Plains cotton ready to defoliate. Small grains make good progress, many early fields providing adequate forage grazing. Planting delayed much week scattered showers, additional moisture helpful establish good stands. Armyworms spread, increase. Seedings continued conditions allow. Wet fields delayed peanut harvest most week, but operations resume all areas as fields dry. Harvest underway south to High Plains. Yield prospects good. Harvested 37%, 31% 1985, 36% avg. Progress soybean harvest slow. Most beans drying down, did not need additional moisture. Harvested 43%, 23% 1985, 26% avg. Sugarbeet harvest slowed by wet conditions. Sugarcane harvest slow pace Rio Grande Valley. Other crops harvested: Sunflowers 36%, 52% 1985, 55% avg. Sugarbeets 14%, 11% 1985, 24% avg. Pecans 21%, 5% 1985, 4% avg. Other crops planted: Oats 65%, 53% 1985, 57% avg.

Commercial Vegetables: Rio Grande Valley, cucumber harvest continued. Tomato, cabbage, other fall vegetables doing well. Some planting winter vegetables underway. Some early variety oranges harvested. Some grapefruit harvest expected end of month. Fruit continued size well. San Antonio-Winter Garden, wet fields delayed most fall vegetables, planting of winter vegetables. Limited volume cabbage available. East limited supplies sweetpotatoes, fall greens available. Wet conditions delayed most activities. High Plains, carrots, pumpkins available, harvest slowed wet fields. Freezing temperatures ended most fall vegetables. Trans-Pecos, planting onion transplants neared completion. Some chili pepper harvest continued. Pecan harvest expanded statewide. Droppage increased with first major cold front. Quality generally good, quantity variable between areas.

Range and Livestock: Freezing temperatures ended growth fall grasses western areas State, favorable moisture conditions provided excellent range, pasture conditions most areas. Forage grazing excellent, prospects additional forage wheat, oats good. Last hay cuttings winding down. Fall calving, lambing continued. Prices steady.

UTAH: Precipitation variable light to heavy south. Little to none elsewhere. Temperature maximums 4 to 8° below normal. Minimums 10° below normal to normal.

Days suitable fieldwork 5.5. Soil moisture 7% short, 86% adequate, 7% surplus. Winter wheat 95% seeded, 83% 1985, 86% avg.; corn silage 93% harvested, 95% 1985, 94% avg.; apples 98% harvested, 70% 1985, 72% avg.; onion, potato harvests continued. Grain corn harvest underway. Fourth cut alfalfa continued. Livestock generally good. Movement from summer range well along.

VIRGINIA: Normal temperatures beginning, cold end period. Average 2° below normal. Range 29 to 82°. Frost many areas. Rain beginning period averaged 1.25 in. More than 2.00 in. some central areas. Severe damaging winds with thunderstorms on 14th.

Days suitable for fieldwork 4.9. Topsoil moisture 73% short, 27% adequate. Rain allowed temporary relief from drought. Corn silage harvest 94% complete, 99% 1985, 98% avg. Grain corn harvest 66% complete, 69% 1985, 70% avg. Soybeans mostly poor. Harvest 10% complete, 8% 1985, 14% avg. Peanuts 96% dug, 94% 1985, 87% avg. Peanuts 83% combined, 83% 1985, 78% avg. Tobacco harvest virtually complete. Rain improved small grain planting conditions. Wheat 20% seeded, 20% 1985, 34% avg. Barley 56% seeded, 70% 1985, 73% avg. Oats 60% seeded, 68% 1985, 78% avg. Previous dry spell caused some irregular germination. Pastures mostly fair. Still some late hay cutting. Reseeding, fertilizing hay, pasture land. Feeder cattle sales active.

WASHINGTON: Continued clear, cool statewide. Weekly precipitation minimal. Average temperatures 3° below normal to 1° above.

Days suitable for fieldwork 7.0. Soil moisture 10% short, 90% adequate. Winter wheat 94% planted, 94% 1985, 90% avg. Winter wheat 74% emerged, 62% 1985, 70% avg. Harvest winding down; apples, grapes. Potato harvest on going. Range, pasture 30% short, 70% adequate.

WEST VIRGINIA: Temperature 4° below normal. Temperature extremes 20° Greenbank; 72° Creston. Average temperature 50°. Precipitation 0.33 in. below normal north and northeast divisions, above normal elsewhere. Average precipitation 0.67 in.

Days suitable for fieldwork 3.9. Soil moisture 33% short, 50% adequate, 17% surplus. Fall seeding: Wheat 74% complete; barley 100%.

WISCONSIN: Temperatures averaged 43°, 5° below normal, low 21°, high 70°. Rainfall 0.10 to 0.70 in. Snowfall 1 to 4 in. north on 14th. Drier weather helped harvest conditions.

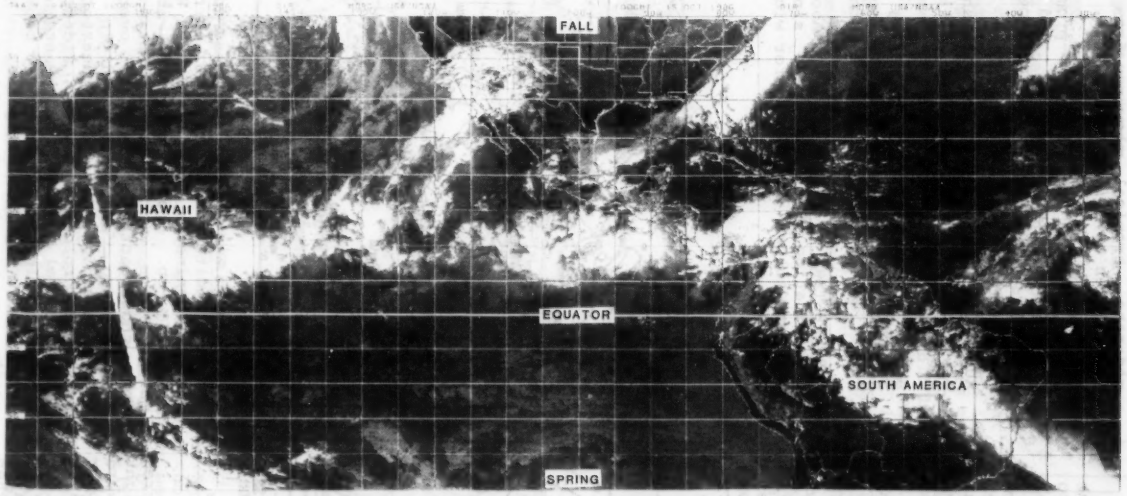
Days suitable for fieldwork 4.4. Soil moisture 14% adequate, 86% surplus. Corn harvest 11% complete, 11% 1985, 14% avg. Sprouting, mold, stalk rot still problems. Corn silo filling 48%, 59% 1985, 72% avg. Some areas drying too much for good silage. Soybean harvest 7% complete, 9% 1985, 22% avg. Quality declining, some mold. Hay cutting for silage, some bales southern districts. Fall plowing slow; 11% complete, 15% 1985, 19% avg. Difficult to sow winter wheat. Tobacco starting to mold in sheds.

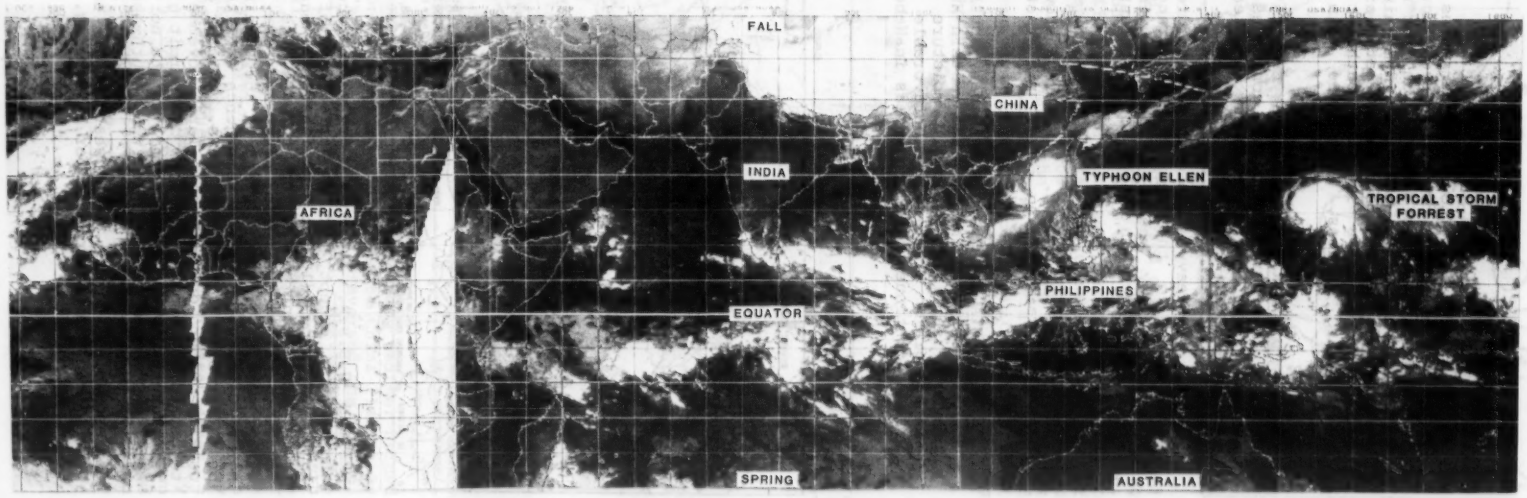
WYOMING: Temperatures averaged 5 to 10° below normal. Precipitation below normal.

Days suitable for fieldwork 6.0. Topsoil moisture 95% adequate, 5% surplus. Subsoil moisture 7% short, 93% adequate. Dry beans combined 90%, 90% 1985, 90% avg. Corn for grain harvested 10%, 25% 1985, 25% avg. Potatoes harvested 85%, 65% 1985, 75% avg. Sugarbeets dug 60%, 55% 1985, 60% avg. Winter wheat mostly good. Livestock average or better condition throughout State. Continued movement to winter pastures, markets.

Global Weather Satellite Image

October 15, 1986





International Weather and Crop Summary

October 12 - 18, 1986

HIGHLIGHTS:

UNITED STATES ... Lower temperatures and drier weather boost row crop harvest across the eastern half of the Nation, but rain keeps harvest from making maximum gain in the Corn Belt and southern Great Plains. Rain eases dryness in the Southeast and mid-Atlantic States, but more rain is needed.

WESTERN U.S.S.R. ... Chronic dryness in the Ukraine and North Caucasus continues to hamper winter grain emergence and early growth.

EUROPE ... Heavy rain continues to drench crop areas in the western Mediterranean. Unfavorable dry weather hampers winter grain emergence in parts of southeastern Europe.

SOUTH ASIA ... Minimal rain falls in India's cotton region. Moderate showers benefit grain-filling rice in eastern India.

EASTERN ASIA ... Showers in Henan, southern Shanxi, southern Shaanxi, and western Hubei provide sufficient topsoil moisture for winter grain planting. Unfavorable dry weather continues over crop areas in Hebei.

MEXICO ... Generally favorable harvest weather prevails in the north while some rain helps immature corn in the south.

CANADA ... Dry, mild weather allows the Prairie grain harvest to resume.

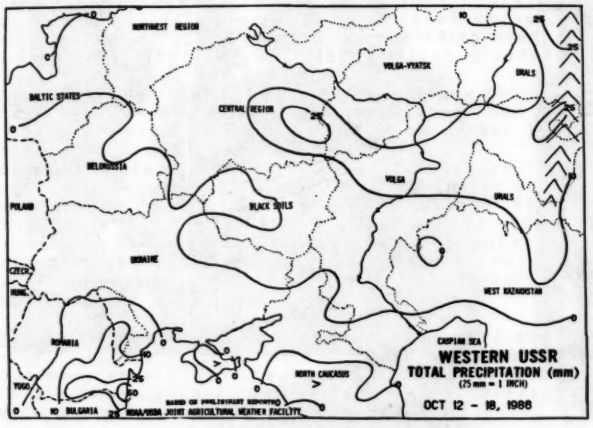
SOUTHEAST ASIA ... Scattered showers benefit upland crops in Thailand. Mostly moderate, tropical showers from Tropical Storm Ellen cover the Philippines.

SOUTH AMERICA ... Showers promote crop development in Argentina and southern Brazil, but unfavorable dryness persists in Brazil's coffee area.

AUSTRALIA ... Light to moderate showers and mild temperatures benefit grain-filling wheat throughout Australia.

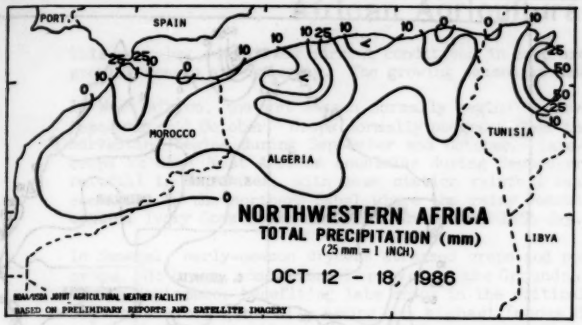
SOUTH AFRICA ... Scattered showers throughout the Maize Triangle improve soil conditions for the planting of corn.

NORTHWESTERN AFRICA ... Above-normal precipitation in most areas since early October allows fieldwork for winter grain planting.

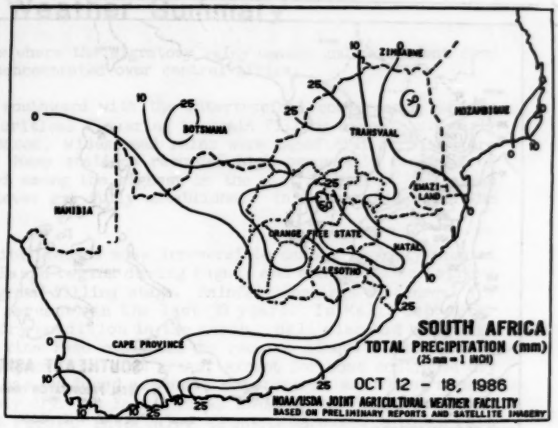


WESTERN U.S.S.R. ... Mostly dry weather covered the region except for a narrow band of light rain and snow (10 to 25mm) that fell eastward from the Central Region through the upper Volga. Chronic dryness continued over major winter grain producing areas of the Ukraine and North Caucasus. Uneven emergence is likely to be a problem in these areas. Winter grains usually enter dormancy by late November when temperatures become too low to permit growth. Temperatures were above normal in the north and east and below normal in the southwest. In South Central U.S.S.R. cotton areas, unseasonable cold, wet weather in eastern Uzbekhistan was unfavorable for harvesting.

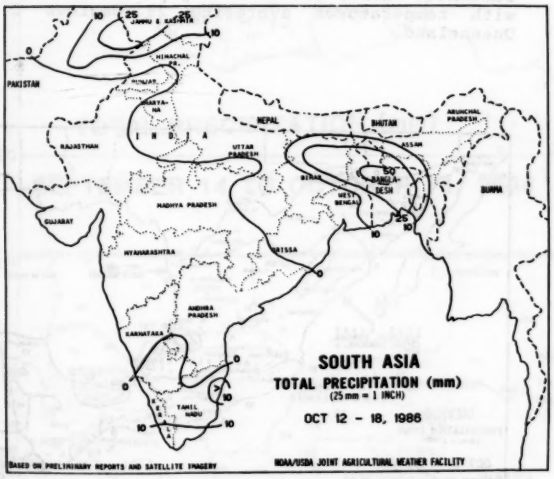
EUROPE ... Heavy rains continued to drench some western Mediterranean regions, particularly the Iberian peninsula and the French Riviera. The rainfall in Spain provided abundant soil moisture for winter grain planting. By week's end, shower activity diminished over the western Mediterranean and increased in the eastern Mediterranean and southeastern Europe. Following prolonged dryness, widespread showers (10 to 25mm) covered southeastern Romania and northern Bulgaria, increasing topsoil moisture for winter grain emergence. However, the weather continued unfavorably dry over Hungary, Yugoslavia, and western Romania. Light showers covered England and France wheat areas, while mostly dry weather covered northern Europe. Weekly temperatures were above normal everywhere except the Balkan peninsula where temperatures were below normal.



NORTHWESTERN AFRICA ... Light showers (around 10mm) covered winter grain areas over much of the region except for southern Morocco, where the weather was dry. The winter grain growing season corresponds with the rainy season that usually begins in early October and ends in May. This year, the rainy season appears to have begun at normal dates in northern Morocco, Algeria, and Tunisia where October rainfall has been above normal. Winter grain planting can begin by late October if soil moisture is sufficient. The bulk of winter grain planting takes place during November in Tunisia and during December in Algeria and Morocco.

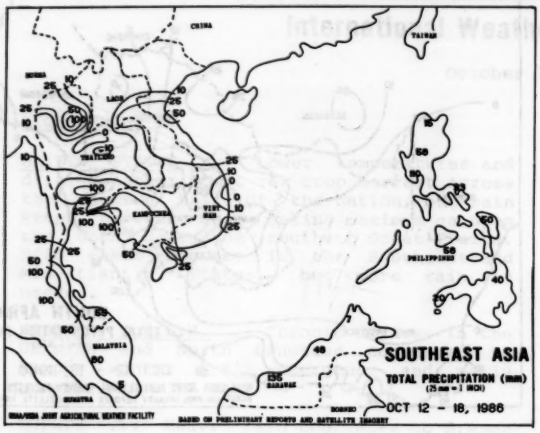


SOUTH AFRICA ... Scattered showers (10 to 36mm) fell throughout South Africa's corn producing region, improving soil conditions for planting. Planting normally takes place from October to December as the rainy season begins. Most of the total corn production comes from the Orange Free State and the southern Transvaal in the area known as the Maize Triangle. Scattered showers have improved soil conditions throughout the Triangle since early September, but planting has likely been minimal.



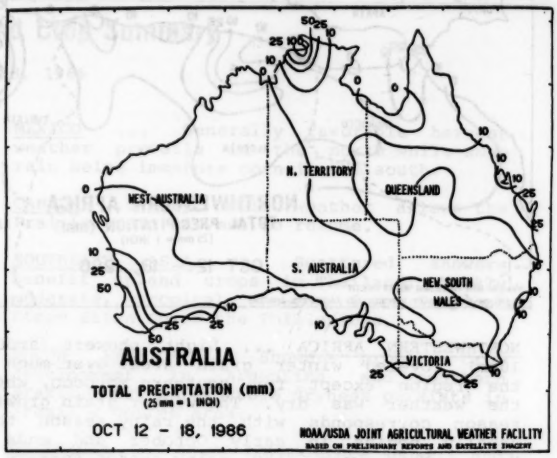
SOUTH ASIA ... Mostly dry weather prevailed from northwest India to southern India aiding groundnut harvesting but hindering cotton in the boll forming stage. Minimal rain (less than 10mm) fell in the northern states from Punjab to eastern Uttar Pradesh, but moderate showers (more than 25mm) fell in northern Bihar and northern West Bengal, improving soil conditions in the grain areas where wheat planting is normally underway. Shower activity (10 to 62mm) continued in eastern India and Bangladesh, benefiting grain-filling rice. However, rainfall averaged less than 25mm in the previously wet areas of West Bengal, bringing relief to previously flooded areas.

EASTERN ASIA ... Early-week dry weather helped cotton harvesting in the North China Plain. By week's end, a cold front traversed the region, producing widespread showers. Heaviest rainfall (25 to 50mm) covered most of Henan, southern Shanxi, southern Shaanxi, and western Hubei, providing sufficient topsoil moisture for winter wheat emergence. Lesser amounts (10 to 25mm) covered northern Shaanxi and Shanxi, western Shandong, and northern Anhui. Unfavorable dry weather continued to cover winter wheat areas in Hebei. Northern-most winter wheat usually enters dormancy in mid-November. In southern China, light rain (10 to 25mm) in Jiangxi and Zhejiang benefited late double cropped rice in the late filling stage.



SOUTHEAST ASIA ... Mostly heavy showers (50 to 147mm) continued in the south from Bangkok to southwestern Kampuchea. However, minimal rain (less than 10mm) covered upland rice regions of central and eastern Thailand. Scattered showers (10 to greater than 50mm) benefited upland crops in northern Thailand. Moderate to heavy tropical showers (25 to 50mm) fell in northern Kampuchea, southern Laos, and southern Vietnam, but minimal rain fell to the north. Tropical Storm Ellen brought moderate tropical showers to the Philippines with heaviest rainfall (greater than 50mm) in southern Luzon.

SOUTH AMERICA ... Showers covered most of Argentina's crop areas, keeping both topsoils moist for summer crop planting and wheat well-watered for reproduction and grain development. Weekly rainfall generally averaged 10 to 30mm, while less than 10mm fell in extreme northwestern Buenos Aires and southern Santa Fe. Argentina's corn planting is over 30 percent complete, while in Santa Fe province 80 percent of the corn has been planted. More rain (25 to 50mm) fell in Rio Grande do Sul, Brazil maintaining moist conditions for corn and early soybean planting. Shower activity diminished further north, continuing the prevailing dry pattern in recent months. Dry weather persisted in Sao Paulo and southern Minas Gerais, where limited moisture has been unfavorable for coffee tree flowering and summer crop planting.



AUSTRALIA ... Shower activity continued in Australia's pasture and grain areas, benefiting wheat in the grain-filling to maturing stages of development. Rainfall averaged less than 5mm in northern New South Wales, but moderate showers (4 to 15mm) fell throughout Queensland. Light to moderate rain (2 to 23mm) fell from South Australia through Victoria to southern New South Wales, with heavier rainfall (greater than 25mm) in coastal Victoria. Moderate to heavy showers (10 to 50mm) fell in Western Australia's grain areas. Temperatures were below normal (12 to 14 degrees C) in the western wheat belt but somewhat warmer (15 to 20 degrees C) in the east with temperatures averaging 23 degrees C in Queensland.

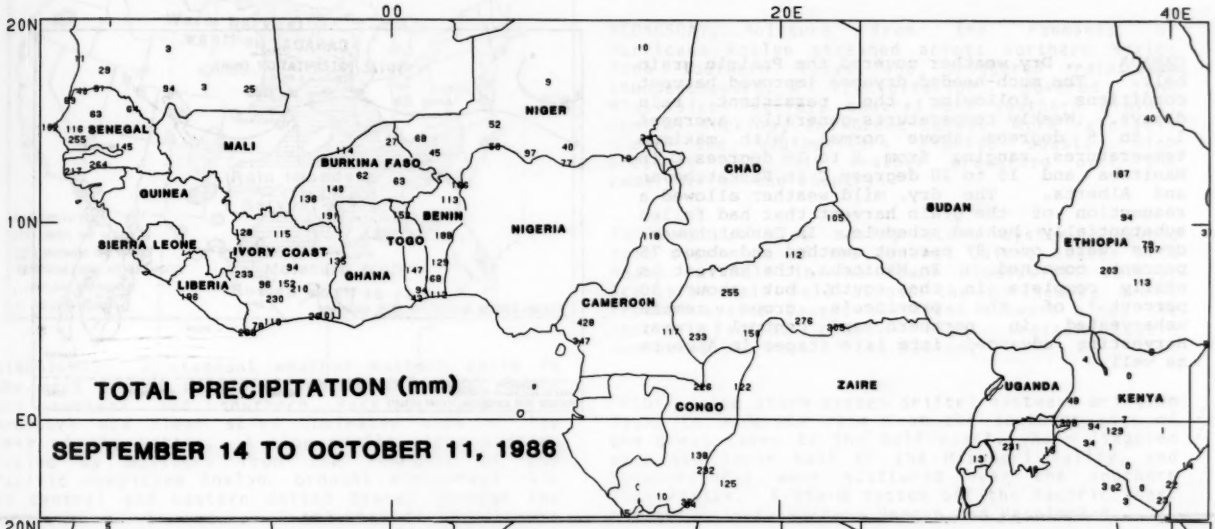
MEXICO ... Dry weather in the northwestern wheat areas favored land preparation and planting. Light showers (1 to 7mm) across north-central and northeastern Mexico caused minimal harvest delays. Showers in the western mountain watersheds likely benefited immature, irrigated crops along the west coast farming region. Rain (10 to 20mm) caused some harvest delays in southern portions of the Southern Plateau corn belt, but very light rain (less than 5mm) fell elsewhere in the major corn-producing Plateau. Tropical showers were scattered throughout southern Mexico, including the Yucatan peninsula, benefiting late season corn.

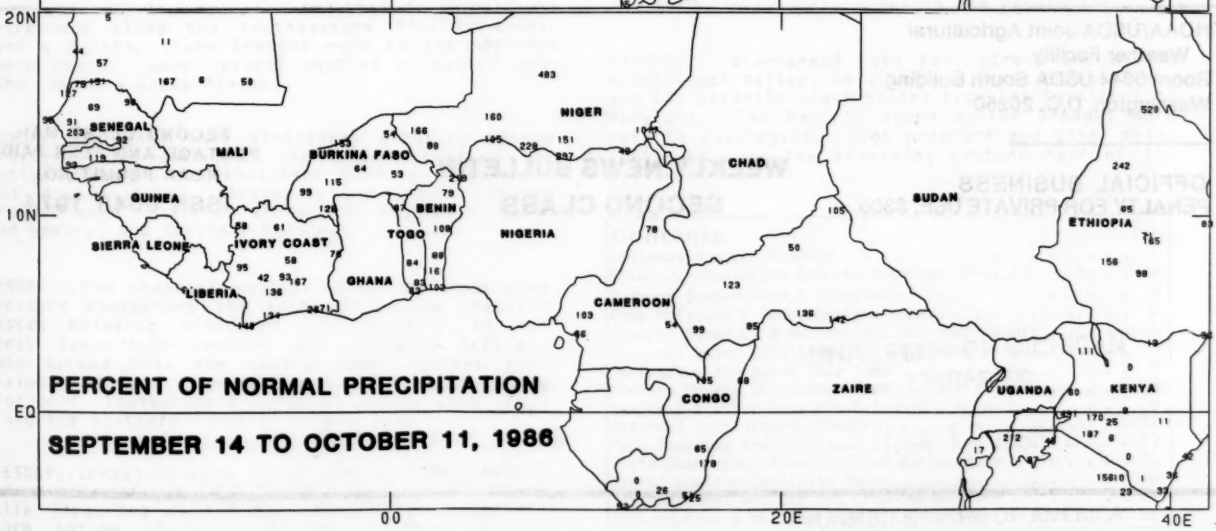
African Agricultural Weather Summary

This overview summarizes current conditions in crop areas where the migratory rainy season and coincident crop growing season are underway. The growing season is now concentrated over central Africa.

In West Africa, the wet season normally begins to move southward with the intertropical convergence zone in September and October. Crops normally progress from the critical flowering to grain filling stages, and early harvesting begins during September and October. Late-season, widespread rains were beneficial for immature crops in most West African countries during September. Many stations recorded high percentile rankings of rainfall in September, with some station rainfall ranked among the highest in the past 30 years. Dry areas continued in the northern Sahel where the rainy season never got fully established. In eastern Niger and the central Ivory Coast some scattered areas were left dry.

In Senegal, early-season dryness stressed crops and possibly caused some irreversible damage to early planted crops. However, conditions improved in the Groundnut Basin region during August and continued to improve during September, benefiting late crops in the critical grain filling stage. Rainfall rankings in Senegal for September were generally among the highest (above 85 percent) in the last 30 years. In Mali, September rainfall was favorable, which helped ease the earlier dry condition in the north. Mali also had very high rainfall rankings (above 90 percent) for September. Burkina Faso continued to receive adequate rainfall at frequent, regular intervals. In Niger, conditions also improved in most areas, except for some continued dry areas in the east. In the Ivory Coast, the wet season has produced adequate moisture in most crop areas, except in the east central region that has been unfavorably dry. In East Africa, Ethiopia has had a favorable rainfall season. Rainfall was frequent and occurred at regular intervals. Crops progressed through rain filling, and harvesting has begun . Rainfall in recent weeks has started to move south with the intertropical convergence zone.





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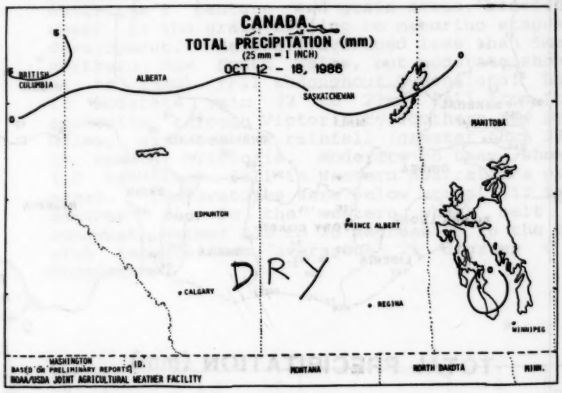
CANADA ... Dry weather covered the Prairie grain belt. The much-needed dryness improved harvest conditions following the persistent rain delays. Weekly temperatures generally averaged 1 to 5 degrees above normal, with maximum temperatures ranging from 8 to 16 degrees C in Manitoba and 15 to 20 degrees C in Saskatchewan and Alberta. The dry, mild weather allowed a resumption of the grain harvest that had fallen substantially behind schedule. In Saskatchewan, crops were over 97 percent swathed and about 75 percent combined. In Manitoba, the harvest is nearly complete in the south, but about 30 percent of the province's crops remain unharvested in northern and central areas. Harvesting advanced into late stages in Alberta as well.



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